ELEMENTARY

MATHEMATICS

AUTHORIZED RESOURCES ANNOTATED LIST

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ELEMENTARY MATHEMATICS

Authorized Resources Annotated List

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Overview

This comprehensive, annotated resource list is designed to assist you in selecting mathematics resources for your elementary classroom.

Organization

The authorized resources are listed under two main headings: Series and Individual Resources. The Series are listed alphabetically under each grade level. The Individual Resources are often applicable across grade levels and are therefore listed alphabetically.

Please Note: Resources to be withdrawn in August 1995 are not included in this list.

Elementary Mathematics Manipulatives

Following the list of individual resources is an alphabetical list of manipulatives available from the Learning Resources Distributing Centre (LRDC) that support the teaching and learning of mathematics. These materials are not authorized by Alberta Education.

Additional Information

Withdrawals of Authorized Resources, a listing of suppliers, Regional Resource and Urban Media Centres, and a title / series index are included as additional information.

Updates

Updates to this list will be provided periodically. Information on new resource authorizations is included in *Connection*, published three times a year and distributed to all jurisdictions and schools by the Student Programs and Evaluation Division.

Pricing Information

Prices as of March 1994 are identified in each entry. Please contact the Learning Resources Distributing Centre (LRDC) or the supplier for current prices, including GST and shipping charges. Updated LRDC costs are also given in the current *LRDC Buyers Guide*. These prices are subject to change without notice.

CONTENTS (Cont'd.)

Series

The mathematics series comprise both teaching and student learning materials. In this annotated list, the mathematics series are listed alphabetically under each grade.

Individual Resources

These resources stand alone as teacher reference or student learning materials. The single component resources often have application across a range of grade levels and therefore are listed alphabetically with the grade level noted.

Icons

Icons used in this annotated list:

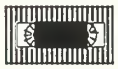
Teaching Resources

Student Resources (Readers)

Student Big Books

Student Skillbooks, Activity Books, Workbooks, etc.

CD ROM

 Videocassette

Courseware

Audiocassette

Manipulatives

Activity Cards, Overhead Transparencies

AUTHORIZATION OF RESOURCES

Alberta Education selects, acquires, develops, produces, translates and authorizes the best possible instructional materials for the implementation of approved programs of study. Authorized resources meet Alberta Education's criteria for acceptability, including:

- criteria for curriculum fit and instructional design
- criteria for tolerance and understanding
- developmental analysis
- physical properties
- cost
- Canadian content.

Resource Authorization Categories

Teaching Resources

Authorized Teaching resources are those teaching resources produced externally to Alberta Education (for example, by publishers) that have been reviewed by Alberta Education, found to meet the criteria of review and to be the best available resources to support the implementation of programs of study and courses, and the attainment of the goals of education; they have been authorized by the Minister. Teaching resources produced as service documents by Alberta Education, such as teacher resource manuals (TRMs), diagnostic programs and monographs, are authorized by definition.

Student Learning Resources

Basic learning resources are those student learning resources authorized by Alberta Education as the most appropriate for addressing the majority of learner expectations of the course(s), substantial components of the course(s), or the most appropriate for meeting general learner expectations across two or more grade levels, subject areas or programs as outlined in provincial programs of study. These may include any resource format, such as print, computer software, manipulatives, video.

Support learning resources are those student learning resources authorized by Alberta Education to assist in addressing some of the learner expectations of course(s) or components of course(s); or to assist in meeting the learner expectations across two or more grade levels, subject areas or programs, as outlined in the provincial programs of study.

Note:

The **School Act**, Statutes of Alberta 1988, Chapter S–3.1, as amended, indicates that a school board may develop or acquire instructional materials for use in programs or in schools. **Selection of instructional resources is not restricted to those authorized by Alberta Education**. [Refer to section 44(2)(a.1).]

GRADE 1 SERIES

ACTIVE LEARNING

Publisher/Distributor: Exclusive Educational Products

The *Active Learning* series is an ever-expanding set of binders that provide suggestions for actively involving students in solving problems, with a special emphasis on using manipulatives. The strands are integrated and evaluation techniques are provided. The activities are in large workcard format. Components in this series are available for Grades 1 to 6.

SUPPLIER: **LRDC**

TEACHING COMPONENTS

Order No. Est. Cost

Teacher Resource Binders

101 Winning Ways with Base Ten: Primary Level (Grades 1-3) *Authorized Teaching* **235623** **$32.15**

Copyright **1989**

This resource uses a variety of concrete materials (focus on base ten materials) to develop understanding of counting, estimating, place value, regrouping for +, -, x, ÷, the meaning of and operations (+, -) with decimals. Problem-solving activities integrate the strands. Evaluation techniques are provided.

200 Things to Do with Logic Blocks: Level K-8 *Authorized Teaching* **236241** **$33.15**

Copyright **1991**

This resource provides many ideas on how to actively involve students in developing understanding of classification, sets, the problem-solving strategy of logical reasoning, symmetry, motion geometry, and the angle sum of triangles and quadrilaterals.

Be SMART: Manipulative Activity Resource: For Levels 1 to 3 *Authorized Teaching* **236259** **$32.20**

Copyright **1990**

This resource integrates problem-solving, manipulatives and science concepts, as the students are actively involved in classification, seriation, correspondence and attribute activities. These activities help students develop understanding of early number concepts as well as some measurement and geometry concepts. Evaluation techniques are provided.

Complete Book of Cube-A-Link, The: Activities for Grades K-4 (2nd Ed.) *Authorized Teaching* **236291** **$32.15**

Copyright **1991**

This resource provides ideas for hands-on activities using cube-a-link to develop understanding of numeration, graphing, measurement, patterning, tiling, perimeter estimation and more. A package of 900 stickers is included to facilitate student recordkeeping.

Mathematical Problem-Solving for Primary Grades (K-3) *Authorized Teaching* **264846** **$30.25**

Copyright **1993**

This resource consists of a series of problem-solving activities with teacher notes for the five strands of the primary mathematics curriculum: Numeration, Operations and Properties, Measurement, Geometry and Data Management. The problem-solving stages and strategies are described and illustrated. Photocopy masters are included as well as evaluation checklists.

Measure It!: Primary Level (Grades K-3) *Authorized Teaching* **236275** **$30.10**

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of mathematical concepts such as length, area, mass, volume, capacity and time. Evaluation techniques are provided.

GRADE 1 SERIES

		Order No.	Est. Cost
Pattern Blocks for Primary Activities: Primary Level K - Grade 3	*Authorized Teaching*	252974	$32.70

Copyright **1992**

This resource provides ideas for hands-on activities using pattern blocks to develop understanding of matching, patterns, fractions, filling spaces, perimeter, area and symmetry.

Show and Tell Geoboard Collection, The: Primary Level (Grades 2-4)	*Authorized Teaching*	252982	$31.70

Copyright **1992**

This geoboard collection includes project work, group and individual assignments and an emphasis on integrating language and mathematics. It provides hands-on activities using the geoboard and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. Evaluation techniques are provided.

Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades	*Authorized Teaching*	236283	$30.10

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of solids, faces, lines and points, and transformations (symmetry, slides, flips, and turns). The program manual at the beginning of the resource guides the teacher in the use of this resource and in integrating assessment.

Teaching Money Using a Hundred Board: Activities for Grades 1 and 2 and Special Needs Students	*Authorized Teaching*	280959	$70.30

Copyright **1992**

This resource provides hands-on activities to develop an understanding of money and addition and subtraction of money. Concepts are reinforced through games, use of money, cards and mats (hundred board). Student evaluation checklists are provided in the blackline masters.

GRADE 1 SERIES

CHALLENGING MATHEMATICS

Authors: Michel and Robert Lyons
Publisher/Distributor: Mondia, Éditeurs

The *Challenging Mathematics* series is based on the heuristic approach. Math concepts are presented using a series of problems that progress from easy to difficult. The content of the series is divided into three broad areas: arithmetic, the study of numbers and operations, including measurement; geometry, which describes space, figures and geometric or topological transformations; and logic, which deals with non-quantifiable properties and leads to computer programming. With its approach of progressing from concrete to symbolic representation, this series helps students learn by using tools and techniques adapted to their needs. This series is available for Grades 1 to 4.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teaching and Activity Guide

The Teaching and Activity Guide presents each concept using a sequence of problems that progress from easy to difficult. The learning situations are designed to give students successful experiences in problem solving. A variety of problems is provided in each block of lesson plans. Handouts and evaluation masters are included.

Challenging Mathematics 1: Teaching and Activity Guide — ***Authorized Teaching*** — **268202** — **$41.40**

Copyright / ISBN **1991 / 2891144198 (Teaching and Activity Guide)**
2891144694 (Appendix: Lesson Plans)

STUDENT COMPONENTS

Workbook

The Workbook contains a series of problem solving activities that provide students with opportunities to apply some of the concepts and skills they are learning in the program.

Challenging Mathematics 1 (Workbook) — ***Support*** — **268228** — **$16.60**

Copyright / ISBN **1990 / 289114418X**

EXPLORATIONS

Authors: Betty Coombs, Lalie Harcourt and Steve Pilcher
Publisher/Distributor: Addison-Wesley Publishers

Explorations is an activity-based program that integrates problem solving; connects manipulatives, diagrams, and symbols; integrates the subjects; and provides continuous evaluation to promote diagnostic teaching. The strands are problem solving (strategies), number operations, measurement and geometry. Data management and problem solving are integrated throughout. The materials for each grade consist of a teacher's resource book, blackline masters and student activity books. This series is available for Grades 1 and 2.

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher's Resource Book			
The Teacher's Resource Book provides a guide to implementing a mathematics program. Planning charts, suggestions for observation and evaluation, classroom-tested activities and suggestions for integration are included.			
Explorations for Early Childhood: Teacher's Resource Book Copyright / ISBN **1988 / 0201191067**	*Basic Teaching*	129701	$92.15
Explorations 1: Teacher's Resource Book Copyright / ISBN **1986 / 0201191121**	*Basic Teaching*	130138	$102.80
Blackline Masters			
A variety of line masters (referenced in the Teacher's Resource Book) are provided for use with activities.			
Explorations for Early Childhood: Line Masters Copyright / ISBN **1988 / 0201191075**	*Authorized Teaching*	129818	$19.40
Explorations 1: Blackline Masters Copyright / ISBN **1985 / 020119113X**	*Authorized Teaching*	130154	$33.80
STUDENT COMPONENTS			
Activity Books			
In addition to a variety of interactive cut-and-paste completion pages, the student activity books contain several colourful game boards and workmats for sorting and graphing activities.			
Ted Is My Friend: A Mathematics Activity Book Copyright / ISBN **1987 / 0201191156**	*Support*	253477	$9.20

GAGE ACTIVE MATHEMATICS

Authors: Lynn Davie and Cathy Beesey
Publisher/Distributor: Gage Educational Publishing

Gage Active Mathematics is a non-text, activity-based collection designed to offer a child-centered learning and active problem solving approach. The components include a teacher's resource book, lap books, investigation books, blackline masters, activity cards and student profile books. The topics include: number, measurement, money, space, data collection and representation, and problems to solve. This series is available in three levels: Level 1 (Pre-Grade 1 to Grade 2); Level 2 (Grades 3 and 4); and Level 3 (Grades 5 and 6).

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher Resource Materials			
The Teacher Resource Book assists teachers in making decisions about organizing their classroom programs and provides a bank of practical activities to develop understanding in mathematics. The Blackline Masters contain practical activities that relate to the focus points for each topic.			
Level 1 (K-2): Teacher's Resource Book Copyright / ISBN **1992 / 077153230X**	*Authorized Teaching*	256380	$56.35
Level 1 (K-2): Measurement: Blackline Masters Copyright / ISBN **1992 / 0771532334**	*Authorized Teaching*	256413	$34.00
Level 1 (K-2): Number: Blackline Masters Copyright / ISBN **1992 / 0771532326**	*Authorized Teaching*	256405	$34.00
Level 1 (K-2): Space: Data Collection and Representation: Blackline Masters Copyright / ISBN **1992 / 0771532318**	*Authorized Teaching*	256398	$34.00
STUDENT COMPONENTS			
Investigation Books			
Investigation Books offer a variety of open-ended activities that encourage students to investigate the environment around them. Cross-curricular topics are provided, and skills are integrated.			
Level 1 (K-2): Investigation Book: Data Collection and Representation Copyright / ISBN **1992 / 0771532504 (Package of 5)**	*Support*	256497	$28.70
Level 1 (K-2): Investigation Book: Measurement Copyright / ISBN **1992 / 0771532512 (Package of 5)**	*Support*	256504	$28.70
Level 1 (K-2): Investigation Book: Money Copyright / ISBN **1992 / 0771532539 (Package of 5)**	*Support*	256520	$28.70
Level 1 (K-2): Investigation Book: Number Copyright / ISBN **1992 / 0771532520 (Package of 5)**	*Support*	256512	$28.70
Level 1 (K-2): Investigation Book: Problems to Solve Copyright / ISBN **1992 / 0771532490 (Package of 5)**	*Support*	256489	$28.70
Level 1 (K-2): Investigation Book: Space Copyright / ISBN **1992 / 0771532547 (Package of 5)**	*Support*	256538	$28.70

GRADE 1 SERIES

		Order No.	Est. Cost

Activity Cards

The Activity Cards provide practical, open-ended activities with teacher notes, focus points, and cross references to similar activities in other components (listed on the back of each card).

Level 1 (K-2): Measurement: Activity Cards Copyright / ISBN **1992 / 0771532423**	***Support***	**256471**	**$44.65**
Level 1 (K-2): Number: Activity Cards Copyright / ISBN **1992 / 0771532407**	***Support***	**256455**	**$44.65**
Level 1 (K-2): Space: Data Collection and Representation: Activity Cards Copyright / ISBN **1992 / 0771532415**	***Support***	**256463**	**$44.65**

Lap Book Packs

Lap Books can be used to introduce a math session or provide motivation to explore topics. They provide problem situations and games for small groups, pairs, individuals or the whole class.

Level 1: Lap Book Pack (Includes: Numbers Everywhere!; Measuring; Patterns, Shape and Finding My Way) Copyright / ISBN **1992 / 077153258X (Package of 3 Titles)**	***Support***	**256794**	**$39.35**

Student Profile Books

Each Student Profile Book contains activities to demonstrate understanding of mathematics in a variety of ways and help teachers profile student work throughout the year.

Level 1a: Student Profile Book Copyright / ISBN **1992 / 0771532377 (Package of 10)**	***Support***	**256421**	**$44.65**
Level 1b: Student Profile Book Copyright / ISBN **1992 / 0771532385 (Package of 10)**	***Support***	**256439**	**$44.65**
Level 1c: Student Profile Book Copyright / ISBN **1992 / 0771532393 (Package of 10)**	***Support***	**256447**	**$44.65**

INTERACTIONS

Authors: Jack Hope and Marian Small
Publisher/Distributor: Mimosa Publications / Ginn Publishing Canada

Interactions is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. This multi-component resource includes a Teacher's Resource Binder, Blackline Masters (included in the binder), Activity Cards (Pre-Grade 1 to Grade 2), See What I Can Do booklets (Pre-Grade 1 to Grade 2), and student texts (Grades 3, 4, 5 and 6 only). Pre-Grade 1 has a big book in place of the activity cards. The literature component for Pre-Grade 1 to Grade 3 includes Read Together Books and Mathtales and provides a real world context for developing concepts. There are developmental and investigative units for each grade. The strands are integrated in these units but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level. This series is available for Pre-Grade 1 to Grade 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Binder

The Teacher Resource Binder includes activities and approaches for planning, teaching, extending, enriching and assessing a balanced math program and provides opportunities for students to construct and apply mathematical knowledge. Each binder includes a program information booklet; developmental and investigation units; a mathematics and children's literature booklet; and a blackline masters book.

Interactions K: Teacher's Resource Binder *Authorized Teaching* **266850 $95.75**
(Includes Blackline Masters)
Copyright / ISBN **1994 / 0770223052 (Teacher's Resource Binder)**
0770223087 (Blackline Masters)

Interactions 1: Teacher's Resource Binder *Basic Teaching* **257437 $106.35**
(Includes Blackline Masters)
Copyright / ISBN **1993 / 0770223125 (Teacher's Resource Binder)**
0770223222 (Blackline Masters)

STUDENT COMPONENTS

Big Books

The Big Book provides shared learning experiences for pairs and small groups. It develops mathematical concepts in areas such as counting, patterning, graphing and number awareness.

Interactions K (Big Book) *Support* **266868 $31.90**
Copyright / ISBN **1994 / 0770223060**

Activity Cards

Activity Cards provide teaching/learning activities to develop and consolidate math learnings through independent, pair or group activities. The Activity Cards are referenced to the appropriate teaching units.

Interactions 1: Activity Cards *Support* **257594 $31.90**
Copyright / ISBN **1993 / 0770223117**

See What I Can Do Booklets

These consumable booklets support communication about learning to teachers, peers and parents through activities, problems and practice.

See What I Can Do Booklets		*Support*	Order No.	Est. Cost
Copyright / ISBN 1993 /	0770223206	(Exploring Addition and Subtraction Strategies - Package of 10)	257601	$7.85
	0770223176	(Exploring Addition and Subtraction Facts - Package of 10)	257544	$7.85
	0770223168	(Exploring Length and Capacity - Package of 10)	257536	$7.85
	0770223184	(Exploring Numeration to 100 - Package of 10)	257627	$7.85
	0770223133	(Exploring Numeration to 12 - Package of 10)	257643	$7.85
	0770223192	(Exploring Shapes - Package of 10)	257619	$7.85
	0770223141	(Exploring Solids - Package of 10)	257552	$7.85
	077022315X	(Introducing Addition and Subtraction Situations - Package of 10)	257560	$7.85

Mathtales

Mathtales provide stories that focus on geometry, measurement and operations. They are available as Big Books for shared reading, small books and audiocassettes.

Mathtales: ECS: Beginnings (Audiocassettes, Small Books, Big Book)		*Support*		
Copyright / ISBN 1992 /	0732709555	(Buster the Balloon, Audiocassette)	267650	$10.75
	0732708427	(Buster the Balloon - Package of 6 Small Books)	267668	$24.45
	0732709474	(I Think I'll Go Flying - Audiocassette)	267692	$10.75
	073270801X	(I Think I'll Go Flying - Package of 6 Small Books)	267709	$24.45
	0732709717	(Pretty Patterns - Audiocassette)	267626	$10.75
	0732708826	(Pretty Patterns - Big Book)	267642	$21.25
	0732708745	(Pretty Patterns - Package of 6 Small Books)	267634	$24.45
	0732709636	(The Puppet's Party - Audiocassette)	267676	$10.75
	0732708583	(The Puppet's Party - Package of 6 Small Books)	267618	$24.45

Mathtales: ECS: Operations (Audiocassettes, Small Books, Big Book)		*Support*		
Copyright / ISBN 1992 /	0732709873	(Buzzing Bees - Audiocassette)	267725	$10.75
	0732708982	(Buzzing Bees - Big Book)	267684	$21.25
	0732708907	(Buzzing Bees - Package of 6 Small Books)	267733	$24.45
	0732710030	(Frowning Clowns - Audiocassette)	267775	$10.75
	0732709067	(Frowning Clowns - Package of 6 Small Books)	267783	$24.45
	0732709229	(The Squirrel's Store - Audiocassette)	267741	$10.75
	0732709229	(The Squirrel's Store - Package of 6 Small Books)	267759	$24.45
	0732709792	(Ten Tiny Ants - Audiocassette)	267767	$10.75
	0732708095	(Ten Tiny Ants - Package of 6 Small Books)	267717	$24.45

GRADE 1 SERIES

		Order No.	Est. Cost
Mathtales: Grade One: Measurement & Geometry *Support* **(Audiocassettes, Small Books, Big Book)**			
Copyright / ISBN 1993 /	0732710197 (Clarence the Clock - Audiocassette)	259657	$10.75
	0732711142 (Clarence the Clock - Package of 6 Small Books)	259631	$24.45
	0732710359 (The Crocodile's Coat - Audiocassette)	259368	$10.75
	0732709385 (The Crocodile's Coat - Package of 6 Small Books)	259326	$24.45
	0732710111 (Fishy Scales - Audiocassette)	259607	$10.75
	0732708176 (Fishy Scales - Package of 6 Small Books)	259417	$24.45
	0732709628 (The Shape Race in Outer Space - Audiocassette)	259293	$10.75
	0732709628 (The Shape Race in Outer Space - Big Book)	259665	$21.25
	0732709547 (The Shape Race in Outer Space - Package of 6 Small Books)	259285	$24.45
Mathtales: Grade One: Operations *Support* **(Audiocassettes, Small Books, Big Book)**			
Copyright / ISBN 1993 /	0732710430 (The Doubling Duo - Audiocassette)	259706	$10.75
	0732709784 (The Doubling Duo - Big Book)	260000	$21.25
	0732709709 (The Doubling Duo - Package of 6 Small Books)	259673	$24.45
	0732710596 (Jack and Jill and the Giant - Audiocassette)	259748	$10.75
	0732710022 (Jack and Jill and the Giant - Package of 6 Small Books)	259730	$24.45
	0732710677 (Miss Gobbledegook - Audiocassette)	259946	$10.75
	0732709805 (Miss Gobbledegook - Package of 6 Small Books)	260034	$24.45
	0732710510 (A Week Away - Audiocassette)	259722	$10.75
	0732708257 (A Week Away - Package of 6 Small Books)	259714	$24.45

Read Together Books

These problem solving storybooks use rhyme, rhythm and repetition to highlight the four operations in story form. They are available as Big Books for shared reading and as small books and audiocassettes.

Read Together Books: Addition (Audiocassettes, Small Books, Big Book) *Support*

Copyright / ISBN 1988 /		Order No.	Est. Cost
0732704928	(Addtron - Audiocassette)	254483	$10.75
0732702119	(Addtron - Package of 6 Small Books)	254475	$24.45
0732704871	(Birds, Birds, Everywhere - Audiocassette)	254425	$10.75
0732702852	(Birds, Birds, Everywhere - Big Book)	254409	$21.25
0732700829	(Birds, Birds, Everywhere - Package of 6 Small Books)	254417	$24.45
073270488X	(Fish for Supper - Audiocassette)	254566	$10.75
0731201302	(Fish for Supper - Package of 6 Small Books)	254558	$24.45
0732704898	(Penny Penguin's Party - Audiocassette)	254540	$10.75
0731201310	(Penny Penguin's Party - Package of 6 Small Books)	254532	$24.45
0732704901	(Sad King Cole - Audiocassette)	254441	$10.75
0732702135	(Sad King Cole - Package of 6 Small Books)	254433	$24.45
0732704936	(Shiny Shells - Audiocassette)	254508	$10.75
0732702526	(Shiny Shells - Package of 6 Small Books)	254491	$24.45
073270491X	(A Strange Stew - Audiocassette)	254467	$10.75
0732702127	(A Strange Stew - Package of 6 Small Books)	254459	$24.45
0731201299	(What's in the Cupboard? - Package of 6 Small Books)	254516	$24.45
0732704863	(What's in the Cupboard? - Audiocassette)	254524	$10.75

GRADE 1 SERIES

			Order No.	Est. Cost
Read Together Books: Division (Audiocassettes, Small Books, Big Book)		***Support***		
Copyright / ISBN 1993 /	0732705100	(The Bear's Berries - Audiocassette)	260216	$10.75
	0732708331	(The Bear's Berries - Big Book)	260521	$21.25
	0731208323	(The Bear's Berries - Package of 6 Small Books)	260208	$24.45
	0732705150	(A Dozen Dizzy Dinosaurs - Audiocassette)	260232	$10.75
	0732702291	(A Dozen Dizzy Dinosaurs - Package of 6 Small Books)	260224	$24.45
	0732705134	(Even Steven - Audiocassette)	260076	$10.75
	0731208315	(Even Steven - Package of 6 Small Books)	260068	$24.45
	0732705169	(Goats in Boats - Audiocassette)	260480	$10.75
	0732702518	(Goats in Boats - Package of 6 Small Books)	260274	$24.45
	0732705118	(The Nice Mice - Audiocassette)	260167	$10.75
	0731208307	(The Nice Mice - Package of 6 Small Books)	260109	$24.45
	0732705142	(The Pirate's Gold - Audiocassette)	260381	$10.75
	0732702275	(The Pirate's Gold - Package of 6 Small Books)	260240	$24.45
	0732705126	(The Pixie's Toyshop - Audiocassette)	260505	$10.75
	0731208293	(The Pixie's Toyshop - Package of 6 Small Books)	260365	$24.45
	0732705177	(The Red Shed - Audiocassette)	260498	$10.75
	0732702283	(The Red Shed - Package of 6 Small Books)	260315	$24.45
Read Together Books: Multiplication (Audiocassettes, Small Books, Big Book)		***Support***		
Copyright / ISBN 1993 /	0732705029	(Frog on a Log - Audiocassette)	258055	$10.75
	0731208250	(Frog on a Log - Package of 6 Small Books)	258063	$24.45
	0732705070	(The Great Carrot Mystery - Audiocassette)	257932	$10.75
	0732702224	(The Great Carrot Mystery - Package of 6 Small Books)	257940	$24.45
	0732705037	(Mirror Mirror - Audiocassette)	258071	$10.75
	0732703395	(Mirror Mirror - Big Book)	258097	$21.25
	0731208277	(Mirror Mirror - Package of 6 Small Books)	258089	$24.45
	0732705088	(Mr. McMunch - Audiocassette)	257974	$10.75
	0732702216	(Mr. McMunch - Package of 6 Small Books)	257990	$24.45
	0732705096	(Peter Piper - Audiocassette)	258005	$10.75
	0732702232	(Peter Piper - Package of 6 Small Books)	258047	$24.45
	0732705045	(Shoes in Twos - Audiocassette)	257916	$10.75
	0731208285	(Shoes in Twos - Package of 6 Small Books)	257924	$24.45
	0732705061	(Tap and Rap - Audiocassette)	257958	$10.75
	0732702208	(Tap and Rap - Package of 6 Small Books)	257966	$24.45
	0732705053	(Zany Zoo - Audiocassette)	258104	$10.75
	0731208269	(Zany Zoo - Package of 6 Small Books)	257908	$24.45

		Order No.	Est. Cost
Read Together Books: Subtraction *Support*			
(Audiocassettes, Small Books, Big Book)			
Copyright / ISBN **1988 /**	**0732704995 (Hurry Hurry - Audiocassette)**	**254607**	**$10.75**
	0732702534 (Hurry Hurry - Package of 6 Small Books)	**254590**	**$24.45**
	0732705010 (The Lazy Shepherd - Audiocassette)	**254061**	**$10.75**
	0732702194 (The Lazy Shepherd - Package of 6 Small Books)	**254053**	**$24.45**
	0732704960 (The Mean Machine - Audiocassette)	**254128**	**$10.75**
	0731201337 (The Mean Machine - Package of 6 Small Books)	**254110**	**$24.45**
	0732704987 (Our Sister's Surprise - Audiocassette)	**254582**	**$10.75**
	0732702623 (Our Sister's Surprise - Big Book)	**254045**	**$21.25**
	0732702151 (Our Sister's Surprise - Package of 6 Small Books)	**254574**	**$24.45**
	0732705502 (Paint a Rainbow - Audiocassette)	**254087**	**$10.75**
	0732702143 (Paint A Rainbow - Package of 6 Small Books)	**254079**	**$24.45**
	0732704979 (The Queen of Hearts - Audiocassette)	**254102**	**$10.75**
	0731201353 (The Queen of Hearts - Package of 6 Small Books)	**254095**	**$24.45**
	0732704952 (Ten Silly Sheep - Audiocassette)	**254144**	**$10.75**
	0731201329 (Ten Silly Sheep - Package of 6 Small Books)	**254136**	**$24.45**
	0732704944 (The Wizard's Wand - Audiocassette)	**254160**	**$10.75**
	0731200837 (The Wizard's Wand - Package of 6 Small Books)	**254152**	**$24.45**

MATHQUEST

Authors: Brendan Kelly et al.
Publisher/Distributor: Addison-Wesley

Mathquest is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and provides continuous evaluation to promote diagnostic teaching. This multi-component resource includes a program manual, file folder games, an evaluation package and student books. The program is designed to motivate children and bring mathematics into their world. This series is available for Grades 1 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Program Manual

The Program Manual provides conceptual development through activities and manipulation of concrete materials. Reinforcement activities, enrichment and reteaching activities, home projects, file folder games and suggestions for integration are included.

MathQuest One: Program Manual *Authorized Teaching* **130089** **$70.65**
Copyright / ISBN **1986 / 0201602202**

File Folder Games

All File Folder Games from the Mathquest Program Manual are enlarged and reproduced. Each package includes game instructions, artwork and/or gameboards, and cards and/or spinners.

MathQuest One: File Folder Games *Authorized Teaching* **130063** **$43.80**
Copyright / ISBN **1989 / 0201191032**

Evaluation Book

The Evaluation Package consists of unit evaluation line masters and reference charts, concrete evaluation activities, and reduced line masters with answers overlaid.

MathQuest One: Evaluation Book *Authorized Teaching* **130071** **$19.10**
Copyright / ISBN **1988 / 0201191040**

STUDENT COMPONENTS

Student Books

Students Books use high quality, colourful art and interesting and relevant examples to appeal to students. Strong pictorial support facilitates the progression from concrete to symbolic. Concepts are introduced through analogies drawn from familiar settings, and skills are reinforced through practice exercises.

MathQuest 1 (Student's Edition) *Support* **130097** **$9.85**
Copyright / ISBN **1986 / 0201191008**

MATHWORKS

Author: Heather J. Kelleher
Publisher/Distributor: Houghton Mifflin Canada

Mathworks is a child-centered, activity-based math program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. The program consists of three strands: 1. Number Content (Numeration and Operations), 2. Spatial Content (Measurement and Geometry) and 3. Data Analysis and Problem Solving. Strand 1 is the spine of the program. Strand 2 is interspersed with the number content strand. Strand 3 is thoroughly integrated. The units are organized around themes. Each lesson has All Together activities (teacher-led), By Themselves activities (independent or small group work) and Meanwhile activities (evaluation, reinforcement extension). The components for each grade consist of a teacher resource book, blackline masters and gameboards. A materials kit is also available from the publisher/distributor. This series is available for Grades 1 and 2.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher's Resource Books

Each Teacher Resource Book provides a step-by-step plan for implementing an activity-oriented, integrated program.

MathWorks: Book A (Teacher Resource Book) ***Basic Teaching*** **130112 $122.40**
Copyright / ISBN **1992 / 0395426839**

Blackline Masters

General-use masters, assessment masters, masters for recording evaluation and parent letters are included.

MathWorks: Book A: Blackline Masters ***Authorized Teaching*** **130104 $37.25**
Copyright / ISBN **1992 / 0395587433**

STUDENT COMPONENTS

Gameboards

Kit

Gameboards provide colourful, larger versions of the cooperative gameboards included in the Blackline Masters.

MathWorks: Book A: Gameboards (Count On; Perilous Path; Spin-A-Roo; Trading Post) ***Support*** **130120 $31.95**
Copyright / ISBN **1992 / 0395587417**

SAIL THROUGH MATHEMATICS

Authors: Richard R. Skemp
Publisher/Distributor: Ecumar Effectiveness Consultants

Structured Activities for Intelligent Learning (SAIL) consists of a set of structured and sequenced mathematics learning activities that enable students to construct understanding through direct experience, communication with others and creative extrapolation. *SAIL Through Mathematics* (Volume 1) includes a teacher's resource book, blackline masters and a set of manilla cards made from the blackline masters. Print resources are supported by videotapes: *Math Learning Activities 3A and 3B*, and *Management of Math Activities*. The content includes systematic development of patterns, set-based organization, numeration, operations and properties, geometry and measurement. This series is authorized for Grades 1 to 6.

SUPPLIER: **LRDC**

	Order No.	Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book provides strategies and activities for elementary school mathematics teaching and learning. Clusters of activities enable students to construct networks of mathematical ideas by building and testing them.

SAIL through Mathematics: Structured Activities for Intelligent Learning: Volume 1 Copyright / ISBN **1993 / 0415028175**	***Authorized Teaching***	**265414**	**$65.35**

Activity Cards

The Activity Cards are manilla tag reproductions of the pages in the blackline masters.

SAIL through Mathematics: Structured Activities for Intelligent Learning: Activity Cards (Grade 1) Copyright / ISBN **1993 /**	***Authorized Teaching***		
	Activity Cards, ECS - Unlaminated Class Set	**266016**	**$147.10**
	Activity Cards, ECS - Laminated Class Set	**266090**	**$272.80**
	Activity Cards, Grade 1 - Unlaminated Class Set	**266008**	**$233.15**
	Activity Cards, Grade 1 - Laminated Class Set	**266107**	**$376.30**

Sample Skemp Mathematics Learning Activities Series

These videocassettes provide video clips of SAIL activities and theory. The video clips include introductions of SAIL activities to small groups of children and demonstrations of classroom management skills in whole class settings.

Management of Math Activities Copyright **1993**	***Authorized Teaching***	**266066**	**$118.25**
Math Learning Activities 3A: Quadrilaterals, Factors, Odd/Even, Geometry and Decimals Copyright **1993**	***Authorized Teaching***	**266074**	**$118.25**
Math Learning Activities 3B: Addition Stories and Sentences, Number Line Extrapolation Copyright **1993**	***Authorized Teaching***	**266058**	**$118.25**

	Order No.	Est. Cost

Blackline Masters

The Blackline Masters support the Teacher Resource Book, Volume I.

SAIL through Mathematics: Structured Activities for Intelligent Learning: Volume 1A: Blackline Masters	***Authorized Teaching***	**265422**	**$65.35**

Copyright / ISBN **1993 / 0969719019**

WINDOWS ON MATHEMATICS

Authors: Betsy Franco and Micaelia Randolph
Publisher/Distributor: Creative Publications/Addison-Wesley

Windows on Mathematics consists of a management guide and 12 resource books. It is an activity-based early childhood mathematics program that may be used as an informal program for Pre-Grade 1 or a supplement to basal programs for Pre-Grade 1 to Grade 2. It complements *Mathematics Their Way* or *Explorations* and could be used to set up math labs. Topics include numeration, operations, measurements, geometry and data management. A manipulative kit is also available from the publisher/distributor. This series is available for Grades 1 and 2.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Management Guide

The Management Guide provides suggestions and tips for managing an activity-based mathematics program, suggestions for assessing and evaluating, assessment forms, program objectives and reproducible lesson aids.

Windows on Mathematics: Worktime Activities for Young Children: Management Guide — *Authorized Teaching* — **129793** — **$15.45**
Copyright / ISBN **1987 / 0884885720**

Resource Books

Each Resource Book contains 28 lessons involving movement, songs, fingerplays, crafts and explorations. The lessons provide concrete experiences in 12 primary mathematics topics. The lessons are sequenced by level of difficulty but do not have to be used in order.

Windows on Mathematics: Worktime Activities for Young Children: Matching — *Authorized Teaching* — **129694** — **$15.45**
Copyright / ISBN **1987 / 0884885607**

Windows on Mathematics: Worktime Activities for Young Children: Shapes — *Authorized Teaching* — **129800** — **$15.45**
Copyright / ISBN **1987 / 0884885615**

Windows on Mathematics: Worktime Activities for Young Children: Counting and Numbers — *Authorized Teaching* — **129769** — **$15.45**
Copyright / ISBN **1987 / 0884885623**

Windows on Mathematics: Worktime Activities for Young Children: Comparing — *Authorized Teaching* — **129727** — **$15.45**
Copyright / ISBN **1987 / 0884885631**

Windows on Mathematics: Worktime Activities for Young Children: Classifying and Graphing — *Authorized Teaching* — **129735** — **$15.45**
Copyright / ISBN **1987 / 088488564X**

Windows on Mathematics: Worktime Activities for Young Children: Patterns — *Authorized Teaching* — **129743** — **$15.45**
Copyright / ISBN **1987 / 0884885666**

Windows on Mathematics: Worktime Activities for Young Children: Reading and Writing Numerals — *Authorized Teaching* — **129751** — **$15.45**
Copyright / ISBN **1987 / 0884885674**

GRADE 1 SERIES

		Order No.	Est. Cost
Windows on Mathematics: Worktime Activities for Young Children: Number Concepts, 0-9 Copyright / ISBN **1987 / 0884885658**	***Authorized Teaching***	**129719**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Number Concepts, 10-99 Copyright / ISBN **1987 / 0884885682**	***Authorized Teaching***	**130401**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Adding and Subtracting Copyright / ISBN **1987 / 0884885704**	***Authorized Teaching***	**129777**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Measuring Copyright / ISBN **1987 / 0884885690**	***Authorized Teaching***	**129785**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Money and Time Copyright / ISBN **1987 / 0884885712**	***Authorized Teaching***	**130146**	**$15.45**

ACTIVE LEARNING

Publisher/Distributor: Exclusive Educational Products

The *Active Learning* series is an ever-expanding set of binders that provide suggestions for actively involving students in solving problems, with a special emphasis on using manipulatives. The strands are integrated and evaluation techniques are provided. The activities are in large workcard format. Components in this series are available for Grades 1 to 6.

SUPPLIER: **LRDC**

TEACHING COMPONENTS

Order No. Est. Cost

Teacher Resource Binders

101 Winning Ways with Base Ten: Primary Level (Grades 1-3) *Authorized Teaching* **235623** **$32.15**

Copyright **1989**

This resource uses a variety of concrete materials (focus on base ten materials) to develop understanding of counting, estimating, place value, regrouping for +, -, x, ÷, the meaning of and operations (+, -) with decimals. Problem-solving activities integrate the strands. Evaluation techniques are provided.

200 Things to Do with Logic Blocks: Level K-8 *Authorized Teaching* **236241** **$33.15**

Copyright **1991**

This resource provides many ideas on how to actively involve students in developing understanding of classification, sets, the problem-solving strategy of logical reasoning, symmetry, motion geometry, and the angle sum of triangles and quadrilaterals.

Be SMART: Manipulative Activity Resource: For Levels 1 to 3 *Authorized Teaching* **236259** **$32.20**

Copyright **1990**

This resource integrates problem-solving, manipulatives and science concepts, as the students are actively involved in classification, seriation, correspondence and attribute activities. These activities help students develop understanding of early number concepts as well as some measurement and geometry concepts. Evaluation techniques are provided.

Complete Book of Cube-A-Link, The: Activities for Grades K-4 (2nd Ed.) *Authorized Teaching* **236291** **$32.15**

Copyright **1991**

This resource provides ideas for hands-on activities using cube-a-link to develop understanding of numeration, graphing, measurement, patterning, tiling, perimeter estimation and more. A package of 900 stickers is included to facilitate student recordkeeping.

Mathematical Problem-Solving for Primary Grades (K-3) *Authorized Teaching* **264846** **$30.25**

Copyright **1993**

This resource consists of a series of problem-solving activities with teacher notes for the five strands of the primary mathematics curriculum: Numeration, Operations and Properties, Measurement, Geometry and Data Management. The problem-solving stages and strategies are described and illustrated. Photocopy masters are included as well as evaluation checklists.

Measure It!: Primary Level (Grades K-3) *Authorized Teaching* **236275** **$30.10**

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of mathematical concepts such as length, area, mass, volume, capacity and time. Evaluation techniques are provided.

GRADE 2 SERIES

		Order No.	Est. Cost
Pattern Blocks for Primary Activities: Primary Level K - Grade 3	*Authorized Teaching*	252974	$32.70

Copyright **1992**

This resource provides ideas for hands-on activities using pattern blocks to develop understanding of matching, patterns, fractions, filling spaces, perimeter, area and symmetry.

Show and Tell Geoboard Collection, The: Primary Level (Grades 2-4)	*Authorized Teaching*	252982	$31.70

Copyright **1992**

This geoboard collection includes project work, group and individual assignments and an emphasis on integrating language and mathematics. It provides hands-on activities using the geoboard and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. Evaluation techniques are provided.

Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades	*Authorized Teaching*	236283	$30.10

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of solids, faces, lines and points, and transformations (symmetry, slides, flips, and turns). The program manual at the beginning of the resource guides the teacher in the use of this resource and in integrating assessment.

Teaching Money Using a Hundred Board: Activities for Grades 1 and 2 and Special Needs Students	*Authorized Teaching*	280959	$70.30

Copyright **1992**

This resource provides hands-on activities to develop an understanding of money and addition and subtraction of money. Concepts are reinforced through games, use of money, cards and mats (hundred board). Student evaluation checklists are provided in the blackline masters.

CHALLENGING MATHEMATICS

Authors: Michel and Robert Lyons
Publisher/Distributor: Mondia, Éditeurs

The *Challenging Mathematics* series is based on the heuristic approach. Math concepts are presented using a series of problems that progress from easy to difficult. The content of the series is divided into three broad areas: arithmetic, the study of numbers and operations, including measurement; geometry, which describes space, figures and geometric or topological transformations; and logic, which deals with non-quantifiable properties and leads to computer programming. With its approach of progressing from concrete to symbolic representation, this series helps students learn by using tools and techniques adapted to their needs. This series is available for Grades 1 to 4.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teaching and Activity Guide

The Teaching and Activity Guide presents each concept using a sequence of problems that progress from easy to difficult. The learning situations are designed to give students successful experiences in problem solving. A variety of problems is provided in each block of lesson plans. Handouts and evaluation masters are included.

Challenging Mathematics 2: Teaching and Activity Guide	***Authorized Teaching***	**268195**	**$41.40**

Copyright / ISBN **1991 / 2891144651**

STUDENT COMPONENTS

Workbook

The Workbook contains a series of problem solving activities that provide students with opportunities to apply some of the concepts and skills they are learning in the program.

Challenging Mathematics 2 (Workbook)	***Support***	**268278**	**$16.60**

Copyright / ISBN **1991 / 2891144643**

EXPLORATIONS

Authors: Betty Coombs, Lalie Harcourt and Steve Pilcher
Publisher/Distributor: Addison-Wesley Publishers

Explorations is an activity-based program that integrates problem solving; connects manipulatives, diagrams, and symbols; integrates the subjects; and provides continuous evaluation to promote diagnostic teaching. The strands are problem solving (strategies), number operations, measurement and geometry. Data management and problem solving are integrated throughout. The materials for each grade consist of a teacher's resource book, blackline masters and student activity books. This series is available for Grades 1 and 2.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher's Resource Book

The Teacher's Resource Book provides a guide to implementing a mathematics program. Planning charts, suggestions for observation and evaluation, classroom-tested activities and suggestions for integration are included.

Explorations 2: Teacher's Resource Book *Basic Teaching* **130394 $102.80**
Copyright / ISBN **1987 / 0201192241**

Blackline Masters

A variety of line masters (referenced in the Teacher's Resource Book) are provided for use with activities.

Explorations 2: Blackline Masters *Authorized Teaching* **130419 $33.80**
Copyright / ISBN **1987 / 0201192233**

STUDENT COMPONENTS

Activity Books

In addition to a variety of interactive cut-and-paste completion pages, the student activity books contain several colourful game boards and workmats for sorting and graphing activities.

Let's Explore: A Mathematics Activity Book *Support* **254293 $9.40**
Copyright / ISBN **1988 / 020119225X**

GAGE ACTIVE MATHEMATICS

Authors: Lynn Davie and Cathy Beesey
Publisher/Distributor: Gage Educational Publishing

Gage Active Mathematics is a non-text, activity-based collection designed to offer a child-centered learning and active problem solving approach. The components include a teacher's resource book, lap books, investigation books, blackline masters, activity cards and student profile books. The topics include: number, measurement, money, space, data collection and representation, and problems to solve. This series is available in three levels: Level 1 (Pre-Grade 1 to Grade 2); Level 2 (Grades 3 and 4); and Level 3 (Grades 5 and 6).

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher Resource Materials			
The Teacher Resource Book assists teachers in making decisions about organizing their classroom programs and provides a bank of practical activities to develop understanding in mathematics. The Blackline Masters contain practical activities that relate to the focus points for each topic.			
Level 1 (K-2): Teacher's Resource Book Copyright / ISBN 1992 / 077153230X	*Authorized Teaching*	256380	$56.35
Level 1 (K-2): Measurement: Blackline Masters Copyright / ISBN 1992 / 0771532334	*Authorized Teaching*	256413	$34.00
Level 1 (K-2): Number: Blackline Masters Copyright / ISBN 1992 / 0771532326	*Authorized Teaching*	256405	$34.00
Level 1 (K-2): Space: Data Collection and Representation: Blackline Masters Copyright / ISBN 1992 / 0771532318	*Authorized Teaching*	256398	$34.00
STUDENT COMPONENTS			
Investigation Books			
Investigation Books offer a variety of open-ended activities that encourage students to investigate the environment around them. Cross-curricular topics are provided, and skills are integrated.			
Level 1 (K-2): Investigation Book: Data Collection and Representation Copyright / ISBN 1992 / 0771532504 (Package of 5)	*Support*	256497	$28.70
Level 1 (K-2): Investigation Book: Measurement Copyright / ISBN 1992 / 0771532512 (Package of 5)	*Support*	256504	$28.70
Level 1 (K-2): Investigation Book: Money Copyright / ISBN 1992 / 0771532539 (Package of 5)	*Support*	256520	$28.70
Level 1 (K-2): Investigation Book: Number Copyright / ISBN 1992 / 0771532520 (Package of 5)	*Support*	256512	$28.70
Level 1 (K-2): Investigation Book: Problems to Solve Copyright / ISBN 1992 / 0771532490 (Package of 5)	*Support*	256489	$28.70
Level 1 (K-2): Investigation Book: Space Copyright / ISBN 1992 / 0771532547 (Package of 5)	*Support*	256538	$28.70

GRADE 2 SERIES

		Order No.	Est. Cost

Activity Cards

The Activity Cards provide practical, open-ended activities with teacher notes, focus points, and cross references to similar activities in other components (listed on the back of each card).

Level 1 (K-2): Measurement: Activity Cards Copyright / ISBN **1992 / 0771532423**	*Support*	**256471**	**$44.65**
Level 1 (K-2): Number: Activity Cards Copyright / ISBN **1992 / 0771532407**	*Support*	**256455**	**$44.65**
Level 1 (K-2): Space: Data Collection and Representation: Activity Cards Copyright / ISBN **1992 / 0771532415**	*Support*	**256463**	**$44.65**

Lap Book Packs

Lap Books can be used to introduce a math session or provide motivation to explore topics. They provide problem situations and games for small groups, pairs, individuals or the whole class.

Level 1: Lap Book Pack (Includes: Numbers Everywhere!; Measuring; Patterns, Shape and Finding My Way) Copyright / ISBN **1992 / 077153258X (Package of 3 Titles)**	*Support*	**256794**	**$39.35**

Student Profile Books

Each Student Profile Book contains activities to demonstrate understanding of mathematics in a variety of ways and help teachers profile student work throughout the year.

Level 1a: Student Profile Book Copyright / ISBN **1992 / 0771532377 (Package of 10)**	*Support*	**256421**	**$44.65**
Level 1b: Student Profile Book Copyright / ISBN **1992 / 0771532385 (Package of 10)**	*Support*	**256439**	**$44.65**
Level 1c: Student Profile Book Copyright / ISBN **1992 / 0771532393 (Package of 10)**	*Support*	**256447**	**$44.65**

INTERACTIONS

Authors: Jack Hope and Marian Small
Publisher/Distributor: Mimosa Publications / Ginn Publishing Canada

Interactions is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. This multi-component resource includes a Teacher's Resource Binder, Blackline Masters (included in the binder), Activity Cards (Pre-Grade 1 to Grade 2), See What I Can Do booklets (Pre-Grade 1 to Grade 2), and student texts (Grades 3, 4, 5 and 6 only). Pre-Grade 1 has a big book in place of the activity cards. The literature component for Pre-Grade 1 to Grade 3 includes Read Together Books and Mathtales and provides a real world context for developing concepts. There are developmental and investigative units for each grade. The strands are integrated in these units but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level. This series is available for Pre-Grade 1 to Grade 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Binder

The Teacher Resource Binder includes activities and approaches for planning, teaching, extending, enriching and assessing a balanced math program and provides opportunities for students to construct and apply mathematical knowledge. Each binder includes a program information booklet; developmental and investigation units; a mathematics and children's literature booklet; and a blackline masters book.

Interactions 2: Teacher's Resource Binder (Includes Blackline Masters) — ***Authorized Teaching*** — **266818** — **$106.35**

Copyright / ISBN **1994 / 0770223265 (Teacher's Resource Binder)**
0770223362 (Blackline Masters)

STUDENT COMPONENTS

Activity Cards

Activity Cards provide teaching/learning activities to develop and consolidate math learnings through independent, pair or group activities. The Activity Cards are referenced to the appropriate teaching units.

Activity Cards — ***Support*** — **266842** — **$31.90**

Copyright / ISBN **1994 / 0770223257**

See What I Can Do Booklets

These consumable booklets support communication about learning to teachers, peers and parents through activities, problems and practice.

See What I Can Do Booklets		*Support*	Order No.	Est. Cost
Copyright / ISBN 1994 /	077022329X	(Examining Addition - Package of 10)	266892	$7.85
	0770223311	(Examining Subtraction - Package of 10)	266917	$7.85
	0770223273	(Exploring Addition and Subtraction - Package of 10)	266876	$7.85
	0770223388	(Exploring Geometry Patterns - Package of 10)	266933	$7.85
	0770223303	(Exploring Mass and Time - Package of 10)	266909	$7.85
	0770223281	(Exploring Shapes and Solids - Package of 10)	266884	$7.85
	077022332X	(Extending Numeration - Package of 10)	266925	$7.85
	0770223346	(Introducing Multiplication - Package of 10)	266941	$7.85

Mathtales

Mathtales provide stories that build on understandings developed by the Read Togethers and focus on geometry, measurement and operations. They are available as Big Books for shared reading, small books and audiocassettes.

Mathtales: Grade Two: Measurement & Geometry (Audiocassettes, Small Books, Big Book)		*Support*		
Copyright / ISBN 1992 /	0732710995	(Amazing Mazes - Audiocassette)	267569	$10.75
	0732710588	(Amazing Mazes - Big Book)	267600	$21.25
	0732710502	(Amazing Mazes - Package of 6 Small Books)	267551	$24.45
	073271091X	(The Bears' Breakfast - Audiocassette)	267428	$10.75
	0732710340	(The Bears' Breakfast - Package of 6 Small Books)	267436	$24.45
	0732710839	(Five Minutes More - Audiocassette)	267452	$10.75
	0732708338	(Five Minutes More - Package of 6 Small Books)	267460	$24.45
	0732710758	(The Jumping Contest - Audiocassette)	267494	$10.75
	0732710189	(The Jumping Contest - Package of 6 Small Books)	267501	$24.45

Mathtales: Grade Two: Operations (Audiocassettes, Small Books, Big Book)		*Support*		
Copyright / ISBN 1992 /	0732711150	(Diffo the Dynamo - Audiocassette)	267577	$10.75
	0732710820	(Diffo the Dynamo - Package of 6 Small Books)	267585	$24.45
	0732711231	(Eight Gangling Arms - Audiocassette)	267593	$10.75
	0732708419	(Eight Gangling Arms - Package of 6 Small Books)	267519	$24.45
	073271107X	(The Frolicking Frogs - Audiocassette)	267543	$10.75
	073271074X	(The Frolicking Frogs - Big Book)	267486	$21.25
	0732710669	(The Frolicking Frogs - Package of 6 Small Books)	267478	$24.45
	0732711312	(The Monster Circus - Audiocassette)	267527	$10.75
	0732710987	(The Monster Circus - Package of 6 Small Books)	267535	$24.45

MATHQUEST

Authors: Brendan Kelly et al.
Publisher/Distributor: Addison-Wesley

Mathquest is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and provides continuous evaluation to promote diagnostic teaching. This multi-component resource includes a program manual, file folder games, an evaluation package and student books. The program is designed to motivate children and bring mathematics into their world. This series is available for Grades 1 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Program Manual

The Program Manual provides conceptual development through activities and manipulation of concrete materials. Reinforcement activities, enrichment and reteaching activities, home projects, file folder games and suggestions for integration are included.

MathQuest Two: Program Manual *Authorized Teaching* **130328** **$70.65**
Copyright / ISBN **1986 / 0201192012**

File Folder Games

Kit

All File Folder Games from the Mathquest Program Manual are enlarged and reproduced. Each package includes game instructions, artwork and/or gameboards, and cards and/or spinners.

MathQuest Two: File Folder Games *Authorized Teaching* **130344** **$43.80**
Copyright / ISBN **1990 / 0201192039**

Evaluation Book

The Evaluation Package consists of unit evaluation line masters and reference charts, concrete evaluation activities, and reduced line masters with answers overlaid.

MathQuest Two: Evaluation Book *Authorized Teaching* **130336** **$19.10**
Copyright / ISBN **1988 / 0201192047**

STUDENT COMPONENTS

Student Books

Students Books use high quality, colourful art and interesting and relevant examples to appeal to students. Strong pictorial support facilitates the progression from concrete to symbolic. Concepts are introduced through analogies drawn from familiar settings, and skills are reinforced through practice exercises.

MathQuest 2 (Student's Edition) *Support* **130352** **$9.85**
Copyright / ISBN **1986 / 0201192004**

MATHWORKS

Author: Heather J. Kelleher
Publisher/Distributor: Houghton Mifflin Canada

Mathworks is a child-centered, activity-based math program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. The program consists of three strands: 1. Number Content (Numeration and Operations), 2. Spatial Content (Measurement and Geometry) and 3. Data Analysis and Problem Solving. Strand 1 is the spine of the program. Strand 2 is interspersed with the number content strand. Strand 3 is thoroughly integrated. The units are organized around themes. Each lesson has All Together activities (teacher-led), By Themselves activities (independent or small group work) and Meanwhile activities (evaluation, reinforcement extension). The components for each grade consist of a teacher resource book, blackline masters and gameboards. A materials kit is also available from the publisher/distributor. This series is available for Grades 1 and 2.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher's Resource Books

Each Teacher Resource Book provides a step-by-step plan for implementing an activity-oriented, integrated program.

MathWorks: Book B (Teacher Resource Book) ***Basic Teaching*** **130378 $122.40**
Copyright / ISBN **1992 / 0395426847**

Blackline Masters

General-use masters, assessment masters, masters for recording evaluation and parent letters are included.

MathWorks: Book B: Blackline Masters ***Authorized Teaching*** **130360 $37.25**
Copyright / ISBN **1992 / 0395587441**

STUDENT COMPONENTS

Gameboards

Kit

Gameboards provide colourful, larger versions of the cooperative gameboards included in the Blackline Masters.

MathWorks: Book B: Gameboards (Hundred Chart; Peaks and Pitfalls; Trade Winds; Get in Shape) ***Support*** **130386 $31.95**
Copyright **1992**

SAIL THROUGH MATHEMATICS

Authors: Richard R. Skemp
Publisher/Distributor: Ecumar Effectiveness Consultants

Structured Activities for Intelligent Learning (SAIL) consists of a set of structured and sequenced mathematics learning activities that enable students to construct understanding through direct experience, communication with others and creative extrapolation. *SAIL Through Mathematics* (Volume 1) includes a teacher's resource book, blackline masters and a set of manilla cards made from the blackline masters. Print resources are supported by videotapes: *Math Learning Activities 3A and 3B*, and *Management of Math Activities*. The content includes systematic development of patterns, set-based organization, numeration, operations and properties, geometry and measurement. This series is authorized for Grades 1 to 6.

SUPPLIER: **LRDC**

		Order No.	Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book provides strategies and activities for elementary school mathematics teaching and learning. Clusters of activities enable students to construct networks of mathematical ideas by building and testing them.

SAIL through Mathematics: Structured Activities for Intelligent Learning: Volume 1 Copyright / ISBN **1993 / 0415028175**	***Authorized Teaching***	**265414**	**$65.35**

Activity Cards

The Activity Cards are manilla tag reproductions of the pages in the blackline masters.

SAIL through Mathematics: Structured Activities for Intelligent Learning: Activity Cards (Grade 2) Copyright / ISBN **1993 /**	***Authorized Teaching***		
	Activity Cards, Grade 2 - Unlaminated Class Set	**266024**	**$386.80**
	Activity Cards, Grade 2 - Laminated Class Set	**266115**	**$618.00**

Sample Skemp Mathematics Learning Activities Series

These videocassettes provide video clips of SAIL activities and theory. The video clips include introductions of SAIL activities to small groups of children and demonstrations of classroom management skills in whole class settings.

Management of Math Activities Copyright **1993**	***Authorized Teaching***	**266066**	**$118.25**
Math Learning Activities 3A: Quadrilaterals, Factors, Odd/Even, Geometry and Decimals Copyright **1993**	***Authorized Teaching***	**266074**	**$118.25**
Math Learning Activities 3B: Addition Stories and Sentences, Number Line Extrapolation Copyright **1993**	***Authorized Teaching***	**266058**	**$118.25**

Blackline Masters

The Blackline Masters support the Teacher Resource Book, Volume I.

SAIL through Mathematics: Structured Activities for Intelligent Learning: Volume 1A: Blackline Masters Copyright / ISBN **1993 / 0969719019**	***Authorized Teaching***	**265422**	**$65.35**

WINDOWS ON MATHEMATICS

Authors: Betsy Franco and Micaelia Randolph
Publisher/Distributor: Creative Publications/Addison-Wesley

Windows on Mathematics consists of a management guide and 12 resource books. It is an activity-based early childhood mathematics program that may be used as an informal program for Pre-Grade 1 or a supplement to basal programs for Pre-Grade 1 to Grade 2. It complements *Mathematics Their Way* or *Explorations* and could be used to set up math labs. Topics include numeration, operations, measurements, geometry and data management. A manipulative kit is also available from the publisher/distributor. This series is available for Grades 1 and 2.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Management Guide

The Management Guide provides suggestions and tips for managing an activity-based mathematics program, suggestions for assessing and evaluating, assessment forms, program objectives and reproducible lesson aids.

Windows on Mathematics: Worktime Activities for Young Children: Management Guide — *Authorized Teaching* — **129793** — **$15.45**
Copyright / ISBN **1987 / 0884885720**

Resource Books

Each Resource Book contains 28 lessons involving movement, songs, fingerplays, crafts and explorations. The lessons provide concrete experiences in 12 primary mathematics topics. The lessons are sequenced by level of difficulty but do not have to be used in order.

Windows on Mathematics: Worktime Activities for Young Children: Matching — *Authorized Teaching* — **129694** — **$15.45**
Copyright / ISBN **1987 / 0884885607**

Windows on Mathematics: Worktime Activities for Young Children: Shapes — *Authorized Teaching* — **129800** — **$15.45**
Copyright / ISBN **1987 / 0884885615**

Windows on Mathematics: Worktime Activities for Young Children: Counting and Numbers — *Authorized Teaching* — **129769** — **$15.45**
Copyright / ISBN **1987 / 0884885623**

Windows on Mathematics: Worktime Activities for Young Children: Comparing — *Authorized Teaching* — **129727** — **$15.45**
Copyright / ISBN **1987 / 0884885631**

Windows on Mathematics: Worktime Activities for Young Children: Classifying and Graphing — *Authorized Teaching* — **129735** — **$15.45**
Copyright / ISBN **1987 / 088488564X**

Windows on Mathematics: Worktime Activities for Young Children: Patterns — *Authorized Teaching* — **129743** — **$15.45**
Copyright / ISBN **1987 / 0884885666**

Windows on Mathematics: Worktime Activities for Young Children: Reading and Writing Numerals — *Authorized Teaching* — **129751** — **$15.45**
Copyright / ISBN **1987 / 0884885674**

GRADE 2 SERIES

		Order No.	Est. Cost
Windows on Mathematics: Worktime Activities for Young Children: Number Concepts, 0-9 Copyright / ISBN **1987 / 0884885658**	*Authorized Teaching*	**129719**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Number Concepts, 10-99 Copyright / ISBN **1987 / 0884885682**	*Authorized Teaching*	**130401**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Adding and Subtracting Copyright / ISBN **1987 / 0884885704**	*Authorized Teaching*	**129777**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Measuring Copyright / ISBN **1987 / 0884885690**	*Authorized Teaching*	**129785**	**$15.45**
Windows on Mathematics: Worktime Activities for Young Children: Money and Time Copyright / ISBN **1987 / 0884885712**	*Authorized Teaching*	**130146**	**$15.45**

ACTIVE LEARNING

Publisher/Distributor: Exclusive Educational Products

The *Active Learning* series is an ever-expanding set of binders that provide suggestions for actively involving students in solving problems, with a special emphasis on using manipulatives. The strands are integrated and evaluation techniques are provided. The activities are in large workcard format. Components in this series are available for Grades 1 to 6.

SUPPLIER: **LRDC**

TEACHING COMPONENTS

Order No. Est. Cost

Teacher Resource Binders

101 Winning Ways with Base Ten: Primary Level (Grades 1-3) *Authorized Teaching* **235623** **$32.15**

Copyright **1989**

This resource uses a variety of concrete materials (focus on base ten materials) to develop understanding of counting, estimating, place value, regrouping for +, -, x, ÷, the meaning of and operations (+, -) with decimals. Problem-solving activities integrate the strands. Evaluation techniques are provided.

200 Things to Do with Logic Blocks: Level K-8 *Authorized Teaching* **236241** **$33.15**

Copyright **1991**

This resource provides many ideas on how to actively involve students in developing understanding of classification, sets, the problem-solving strategy of logical reasoning, symmetry, motion geometry, and the angle sum of triangles and quadrilaterals.

Active Overheads: Grades 4 - 6 *Authorized Teaching* **254384** **$30.10**

Copyright **1992**

This binder of materials provides a wide variety of ideas on effectively using manipulatives on the overhead projector to help students develop and demonstrate understanding of mathematics. Each activity includes suggestions for the teacher and the student. This resource is also authorized for Grade 7.

Be SMART: Manipulative Activity Resource: For Levels 1 to 3 *Authorized Teaching* **236259** **$32.20**

Copyright **1990**

This resource integrates problem-solving, manipulatives and science concepts, as the students are actively involved in classification, seriation, correspondence and attribute activities. These activities help students develop understanding of early number concepts as well as some measurement and geometry concepts. Evaluation techniques are provided.

Complete Book of Cube-A-Link, The: Activities for Grades K-4 (2nd Ed.) *Authorized Teaching* **236291** **$32.15**

Copyright **1991**

This resource provides ideas for hands-on activities using cube-a-link to develop understanding of numeration, graphing, measurement, patterning, tiling, perimeter estimation and more. A package of 900 stickers is included to facilitate student recordkeeping.

Mathematical Problem-Solving for Primary Grades (K-3) *Authorized Teaching* **264846** **$30.25**

Copyright **1993**

This resource consists of a series of problem-solving activities with teacher notes for the five strands of the primary mathematics curriculum: Numeration, Operations and Properties, Measurement, Geometry and Data Management. The problem-solving stages and strategies are described and illustrated. Photocopy masters are included as well as evaluation checklists.

		Order No.	Est. Cost
Measure It!: Primary Level (Grades K-3)	*Authorized Teaching*	236275	$30.10

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of mathematical concepts such as length, area, mass, volume, capacity and time. Evaluation techniques are provided.

Pattern Blocks for Primary Activities: Primary Level K - Grade 3	*Authorized Teaching*	252974	$32.70

Copyright **1992**

This resource provides ideas for hands-on activities using pattern blocks to develop understanding of matching, patterns, fractions, filling spaces, perimeter, area and symmetry.

Show and Tell Geoboard Collection, The: Primary Level (Grades 2-4)	*Authorized Teaching*	252982	$31.70

Copyright **1992**

This geoboard collection includes project work, group and individual assignments and an emphasis on integrating language and mathematics. It provides hands-on activities using the geoboard and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. Evaluation techniques are provided.

Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades	*Authorized Teaching*	236283	$30.10

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of solids, faces, lines and points, and transformations (symmetry, slides, flips, and turns). The program manual at the beginning of the resource guides the teacher in the use of this resource and in integrating assessment.

Teaching Money Using a Hundred Board: Activities for Grades 1 and 2 and Special Needs Students	*Authorized Teaching*	280959	$70.30

Copyright **1992**

This resource provides hands-on activities to develop an understanding of money and addition and subtraction of money. Concepts are reinforced through games, use of money, cards and mats (hundred board). Student evaluation checklists are provided in the blackline masters.

CHALLENGING MATHEMATICS

Authors: Michel and Robert Lyons
Publisher/Distributor: Mondia, Éditeurs

The *Challenging Mathematics* series is based on the heuristic approach. Math concepts are presented using a series of problems that progress from easy to difficult. The content of the series is divided into three broad areas: arithmetic, the study of numbers and operations, including measurement; geometry, which describes space, figures and geometric or topological transformations; and logic, which deals with non-quantifiable properties and leads to computer programming. With its approach of progressing from concrete to symbolic representation, this series helps students learn by using tools and techniques adapted to their needs. This series is available for Grades 1 to 4.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teaching and Activity Guide

The Teaching and Activity Guide presents each concept using a sequence of problems that progress from easy to difficult. The learning situations are designed to give students successful experiences in problem solving. A variety of problems is provided in each block of lesson plans. Handouts and evaluation masters are included.

Challenging Mathematics 3: Teaching and Activity Guide — ***Authorized Teaching*** — **268244** — **$44.35**
Copyright / ISBN **1992 / 2891144732**

STUDENT COMPONENTS

Workbook

The Workbook contains a series of problem solving activities that provide students with opportunities to apply some of the concepts and skills they are learning in the program.

Challenging Mathematics 3: Workbook — ***Support*** — **268252** — **$7.30**
Copyright / ISBN **1992 / 2891144767**

Student Text

The Student Texts provide activities that correspond to the teaching and learning strategies in the Guide. They are intended as review and follow-up activities.

Challenging Mathematics 3 (Student Text) — ***Support*** — **268260** — **$23.65**
Copyright / ISBN **1992 / 2891144724**

GAGE ACTIVE MATHEMATICS

Authors: Lynn Davie and Cathy Beesey
Publisher/Distributor: Gage Educational Publishing

Gage Active Mathematics is a non-text, activity-based collection designed to offer a child-centered learning and active problem solving approach. The components include a teacher's resource book, lap books, investigation books, blackline masters, activity cards and student profile books. The topics include: number, measurement, money, space, data collection and representation, and problems to solve. This series is available in three levels: Level 1 (Pre-Grade 1 to Grade 2); Level 2 (Grades 3 and 4); and Level 3 (Grades 5 and 6).

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher Resource Materials			
The Teacher Resource Book assists teachers in making decisions about organizing their classroom programs and provides a bank of practical activities to develop understanding in mathematics. The Blackline Masters contain practical activities that relate to the focus points for each topic.			
Level 2 (3-4): Teacher's Resource Book Copyright / ISBN **1992 / 077153261X**	*Authorized Teaching*	**256819**	**$57.45**
Level 2 (3-4): Measurement: Blackline Masters Copyright / ISBN **1992 / 0771532644**	*Authorized Teaching*	**256843**	**$34.00**
Level 2 (3-4): Number: Blackline Masters Copyright / ISBN **1992 / 0771532636**	*Authorized Teaching*	**256835**	**$34.00**
Level 2 (3-4): Space: Data Collection and Representation: Blackline Masters Copyright / ISBN **1992 / 0771532628**	*Authorized Teaching*	**256827**	**$34.00**
STUDENT COMPONENTS			
Investigation Books			
Investigation Books offer a variety of open-ended activities that encourage students to investigate the environment around them. Cross-curricular topics are provided, and skills are integrated.			
Level 2: Investigation Book: All About Number Copyright / ISBN **1992 / 077153289X (Package of 5)**	*Support*	**256934**	**$34.00**
Level 2: Investigation Book: Collecting Data Copyright / ISBN **1992 / 0771532873 (Package of 5)**	*Support*	**256918**	**$34.00**
Level 2: Investigation Book: Dollars and Cents Copyright / ISBN **1992 / 0771532903 (Package of 5)**	*Support*	**256942**	**$34.00**
Level 2: Investigation Book: Measuring Copyright / ISBN **1992 / 0771532881 (Package of 5)**	*Support*	**256926**	**$34.00**
Level 2: Investigation Book: Problems to Think About Copyright / ISBN **1992 / 0771532865 (Package of 5)**	*Support*	**256900**	**$34.00**
Level 2: Investigation Book: Shape, Movement and Location Copyright / ISBN **1992 / 0771532911 (Package of 5)**	*Support*	**256950**	**$34.00**

GRADE 3 SERIES

		Order No.	Est. Cost

Activity Cards

The Activity Cards provide practical, open-ended activities with teacher notes, focus points, and cross references to similar activities in other components (listed on the back of each card).

Level 2 (3-4): Measurement: Activity Cards Copyright / ISBN **1992 / 0771532792**	***Support***	**256801**	**$44.65**
Level 2 (3-4): Number: Activity Cards Copyright / ISBN **1992 / 0771532776**	***Support***	**256877**	**$44.65**
Level 2 (3-4): Space: Data Collection and Representation: Activity Cards Copyright / ISBN **1992 / 0771532784**	***Support***	**256885**	**$44.65**

Lap Book Packs

Lap Books can be used to introduce a math session or provide motivation to explore topics. They provide problem situations and games for small groups, pairs, individuals or the whole class.

Level 2: Lap Book Pack (Includes: Find the Shapes and Follow the Directions; Numbers! Numbers!; What Can You Measure?) Copyright / ISBN **1992 / 0771532954 (Package of 3 Titles)**	***Support***	**256786**	**$39.35**

Student Profile Books

Each Student Profile Book contains activities to demonstrate understanding of mathematics in a variety of ways and help teachers profile student work throughout the year.

Level 2a: Student Profile Book Copyright / ISBN **1992 / 077153275X (Package of 10)**	***Support***	**256851**	**$44.65**
Level 2b: Student Profile Book Copyright / ISBN **1992 / 0771532768 (Package of 10)**	***Support***	**256869**	**$44.65**

INTERACTIONS

Authors: Jack Hope and Marian Small
Publisher/Distributor: Mimosa Publications / Ginn Publishing Canada

Interactions is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. This multi-component resource includes a Teacher's Resource Binder, Blackline Masters (included in the binder), Activity Cards (Pre-Grade 1 to Grade 2), See What I Can Do booklets (Pre-Grade 1 to Grade 2), and student texts (Grades 3, 4, 5 and 6 only). Pre-Grade 1 has a big book in place of the activity cards. The literature component for Pre-Grade 1 to Grade 3 includes Read Together Books and Mathtales and provides a real world context for developing concepts. There are developmental and investigative units for each grade. The strands are integrated in these units but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level. This series is available for Pre-Grade 1 to Grade 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Binder

The Teacher Resource Binder includes activities and approaches for planning, teaching, extending, enriching and assessing a balanced math program and provides opportunities for students to construct and apply mathematical knowledge. Each binder includes a program information booklet; developmental and investigation units; a mathematics and children's literature booklet; and a blackline masters book.

Interactions 3: Teacher's Resource Binder (Includes Blackline Masters)	***Authorized Teaching***	**257411**	**$74.45**

Copyright / ISBN **1993 / 0770223397 (Teacher's Resource Binder)**
0770223486 (Blackline Masters)

STUDENT COMPONENTS

Mathtales

Mathtales provide stories that focus on geometry, measurement and operations. They are available as Big Books for shared reading, small books and audiocassettes.

Mathtales: Grade Three: Measurement and Geometry (Audiocassettes, Small Books, Big Book) ***Support***

Copyright / ISBN **1993 /**

	(Area: Baby Bear's Quilt - Audiocassette)	**270215**	**$10.75**
073270863X	**(Area: Baby Bear's Quilt - Package of 6 Small Books)**	**270207**	**$26.55**
	(Calculating Elapsed Time: The Long, Long Ride - Audiocassette)	**270231**	**$10.75**
0732709199	**(Calculating Elapsed Time: The Long, Long Ride - Big Book)**	**270249**	**$31.90**
0732708559	**(Calculating Elapsed Time: The Long, Long Ride - Package of 6 Small Books)**	**270223**	**$26.55**
	(Perimeter: The New Fence - Audiocassette)	**270265**	**$10.75**
0732711665	**(Perimeter: The New Fence - Package of 6 Small Books)**	**270257**	**$26.55**
	(Visual Thinking: Sherlock Bones - Audiocassette)	**270281**	**$10.75**
0732711509	**(Visual Thinking: Sherlock Bones - Package of 6 Small Books)**	**270273**	**$26.55**

			Order No.	Est. Cost
Mathtales: Grade Three: Operations (Audiocassettes, Small Books, Big Book)		*Support*		
Copyright / ISBN 1993 /		(Money: The Fun Room - Audiocassette)	270356	$10.75
	0732708397	(Money: The Fun Room - Package of 6 Small Books)	270348	$26.55
		(Division: Muffins at the Fair - Audiocassette)	270306	$10.75
	0732708478	(Division: Muffins at the Fair - Package of 6 Small Books)	270299	$26.55
		(Addition and Subtraction: The Pentathlon - Audiocassette)	270330	$31.90
	0732708910	(Addition and Subtraction: The Pentathlon - Big Book)	270322	$10.75
	0732708910	(Addition and Subtraction: The Pentathlon - Package of 6 Small Books)	270314	$26.55
		(Multiplication: Polly the Packer - Audiocassette)	270372	$10.75
	0732711584	(Multiplication: Polly the Packer - Package of 6 Small Books)	270364	$26.55

Student Text

With an emphasis on real life and context-based mathematics, these texts encourage students to communicate and express ideas through talking, writing and using representational forms.

Interactions 3 (Student Text)	*Basic*	257445	$20.20
Copyright / ISBN 1993 / 0770223389			

MATHQUEST

Authors: Brendan Kelly et al.
Publisher/Distributor: Addison-Wesley

Mathquest is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and provides continuous evaluation to promote diagnostic teaching. This multi-component resource includes a program manual, file folder games, student book and a teacher resource book (with evaluation component). The program is designed to motivate children and bring mathematics into their world. This series is available for Grades 1 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book contains reproducible blackline masters in a three-ring binder. Three sections include an evaluation component, a reteaching component and problem solving evaluation.

MathQuest Three: Teacher's Resource Book *Authorized Teaching* **130617 $50.40**
Copyright / ISBN **1988 / 0201193027**

Program Manual

The Program Manual provides conceptual development through activities and manipulation of concrete materials. Reinforcement activities, enrichment and reteaching activities, home projects, file folder games and suggestions for integration are included.

MathQuest Three: Program Manual *Authorized Teaching* **130609 $70.65**
Copyright / ISBN **1987 / 0201606992**

File Folder Games

All File Folder Games from the Mathquest Program Manual are enlarged and reproduced. Each package includes game instructions, artwork and/or gameboards, and cards and/or spinners.

MathQuest Three: File Folder Games *Authorized Teaching* **130625 $43.80**
ISBN **0201193035**

STUDENT COMPONENTS

Student Books

Students Books use high quality, colourful art and interesting and relevant examples to appeal to students. Strong pictorial support facilitates the progression from concrete to symbolic. Concepts are introduced through analogies drawn from familiar settings, and skills are reinforced through practice exercises.

MathQuest 3 (Student's Edition) *Basic* **130633 $24.75**
Copyright / ISBN **1986 / 0201193000**

SAIL THROUGH MATHEMATICS

Authors: Richard R. Skemp
Publisher/Distributor: Ecumar Effectiveness Consultants

Structured Activities for Intelligent Learning ((SAIL) consists of structured and sequenced mathematical learning activities that enable students to construct understanding through direct experience, communication with others and creative extrapolation. The learning activities provide opportunities for cooperative group work and discussion. Volumes 2 and 2a are authorized for Grades 3 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book provides strategies and activities for elementary school mathematics teaching and learning. Clusters of activities enable students to construct networks of mathematical ideas by building and testing them.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2 (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719027**

Blackline Masters

Volume 2a: Photomasters includes blackline masters to complement Volume 2 activities.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2a: Photomasters (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719035**

ACTIVE LEARNING

Publisher/Distributor: Exclusive Educational Products

The *Active Learning* series is an ever-expanding set of binders that provide suggestions for actively involving students in solving problems, with a special emphasis on using manipulatives. The strands are integrated and evaluation techniques are provided. The activities are in large workcard format. Components in this series are available for Grades 1 to 6.

SUPPLIER: **LRDC**

TEACHING COMPONENTS

Order No. Est. Cost

Teacher Resource Binders

101 Winning Ways with Base Ten: Junior Level (Grades 4-6) ***Authorized Teaching*** **235631** **$34.15**

Copyright **1990**

This resource uses base ten materials in problem-solving contexts to develop understanding of place value and operation (+, -, x, ÷) with whole numbers and decimals. Emphasis is placed on estimation and regrouping. Evaluation techniques are provided.

200 Things to Do with Logic Blocks: Level K-8 ***Authorized Teaching*** **236241** **$33.15**

Copyright **1991**

This resource provides many ideas on how to actively involve students in developing understanding of classification, sets, the problem-solving strategy of logical reasoning, symmetry, motion geometry, and the angle sum of triangles and quadrilaterals.

Active Overheads: Grades 4 - 6 ***Authorized Teaching*** **254384** **$30.10**

Copyright **1992**

This binder of materials provides a wide variety of ideas on effectively using manipulatives on the overhead projector to help students develop and demonstrate understanding of mathematics. Each activity includes suggestions for the teacher and the student. This resource is also authorized for Grade 7.

Complete Book of Cube-A-Link, The: Activities for Grades K-4 (2nd Ed.) ***Authorized Teaching*** **236291** **$32.15**

Copyright **1991**

This resource provides ideas for hands-on activities using cube-a-link to develop understanding of numeration, graphing, measurement, patterning, tiling, perimeter estimation and more. A package of 900 stickers is included to facilitate student recordkeeping.

Geoboard Collection, The: An Adventure in Mathematics: Junior Level (Grades 4-6) ***Authorized Teaching*** **235649** **$31.15**

Copyright **1990**

This geoboard collection includes investigation activities using the 5x5 geoboard and geopaper with suggestions for cooperative learning. It provides hands-on geoboard activities to develop understanding of motion geometry, symmetry, two-dimensional figures, perimeter, area and fractions. Evaluation techniques are provided.

Measure It! Junior Level (Grades 4-6) ***Authorized Teaching*** **236267** **$30.10**

Copyright **1992**

This resource provides many ideas on how to actively involve students in developing an understanding of length, area, mass, volume and capacity. Length includes km, m, cm and mm. Mass includes kg and g. Capacity includes L and mL. Evaluation techniques are provided.

GRADE 4 SERIES

		Order No.	Est. Cost
Pattern Blocks: Grades 4-6	***Authorized Teaching***	**235615**	**$30.10**

Copyright **1989**

This resource provides many ideas on how to actively involve students in developing an understanding of patterning, perimeter, area, fractions, symmetry and motion geometry. The problem-solving strategies include trial and error, using manipulatives and logical reasoning. Evaluation techniques are provided.

Problem-Solving: What You Do, When You Don't Know What to Do! Grades 4 - 9	***Authorized Teaching***	**254392**	**$25.10**

Copyright **1991**

This resource describes the problem-solving process and includes a wide variety of strategies to solve problems. Each strategy is explained with a problem example followed by other problems that could be solved using this strategy. Evaluation techniques are included. This resource is also authorized for Grades 7 to 9.

Show and Tell Geoboard Collection, The: Primary Level (Grades 2-4)	***Authorized Teaching***	**252982**	**$31.70**

Copyright **1992**

This geoboard collection includes project work, group and individual assignments and an emphasis on integrating language and mathematics. It provides hands-on activities using the geoboard and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. Evaluation techniques are provided.

Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades	***Authorized Teaching***	**236283**	**$30.10**

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of solids, faces, lines and points, and transformations (symmetry, slides, flips, and turns). The program manual at the beginning of the resource guides the teacher in the use of this resource and in integrating assessment.

CHALLENGING MATHEMATICS

Authors: Michel and Robert Lyons
Publisher/Distributor: Mondia, Éditeurs

The *Challenging Mathematics* series is based on the heuristic approach. Math concepts are presented using a series of problems that progress from easy to difficult. The content of the series is divided into three broad areas: arithmetic, the study of numbers and operations, including measurement; geometry, which describes space, figures and geometric or topological transformations; and logic, which deals with non-quantifiable properties and leads to computer programming. With its approach of progressing from concrete to symbolic representation, this series helps students learn by using tools and techniques adapted to their needs. This series is available for Grades 1 to 4.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teaching and Activity Guide

The Teaching and Activity Guide presents each concept using a sequence of problems that progress from easy to difficult. The learning situations are designed to give students successful experiences in problem solving. A variety of problems is provided in each block of lesson plans. Handouts and evaluation masters are included.

Challenging Mathematics 4: Teaching and Activity Guide — ***Authorized Teaching*** — **268236** — **$46.15**

Copyright / ISBN **1993 / 2891144791**

STUDENT COMPONENTS

Student Text

The Student Texts provide activities that correspond to the teaching and learning strategies in the Guide. They are intended as review and follow-up activities.

Challenging Mathematics 4 (Student Text) — ***Support*** — **268210** — **$29.15**

Copyright / ISBN **1993 / 2891144783**

GAGE ACTIVE MATHEMATICS

Authors: Lynn Davie and Cathy Beesey
Publisher/Distributor: Gage Educational Publishing

Gage Active Mathematics is a non-text, activity-based collection designed to offer a child-centered learning and active problem solving approach. The components include a teacher's resource book, lap books, investigation books, blackline masters, activity cards and student profile books. The topics include: number, measurement, money, space, data collection and representation, and problems to solve. This series is available in three levels: Level 1 (Pre-Grade 1 to Grade 2); Level 2 (Grades 3 and 4); and Level 3 (Grades 5 and 6).

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher Resource Materials			
The Teacher Resource Book assists teachers in making decisions about organizing their classroom programs and provides a bank of practical activities to develop understanding in mathematics. The Blackline Masters contain practical activities that relate to the focus points for each topic.			
Level 2 (3-4): Teacher's Resource Book Copyright / ISBN **1992 / 077153261X**	*Authorized Teaching*	256819	$57.45
Level 2 (3-4): Measurement: Blackline Masters Copyright / ISBN **1992 / 0771532644**	*Authorized Teaching*	256843	$34.00
Level 2 (3-4): Number: Blackline Masters Copyright / ISBN **1992 / 0771532636**	*Authorized Teaching*	256835	$34.00
Level 2 (3-4): Space: Data Collection and Representation: Blackline Masters Copyright / ISBN **1992 / 0771532628**	*Authorized Teaching*	256827	$34.00
STUDENT COMPONENTS			
Investigation Books			
Investigation Books offer a variety of open-ended activities that encourage students to investigate the environment around them. Cross-curricular topics are provided, and skills are integrated.			
Level 2: Investigation Book: All About Number Copyright / ISBN **1992 / 077153289X (Package of 5)**	*Support*	256934	$34.00
Level 2: Investigation Book: Collecting Data Copyright / ISBN **1992 / 0771532873 (Package of 5)**	*Support*	256918	$34.00
Level 2: Investigation Book: Dollars and Cents Copyright / ISBN **1992 / 0771532903 (Package of 5)**	*Support*	256942	$34.00
Level 2: Investigation Book: Measuring Copyright / ISBN **1992 / 0771532881 (Package of 5)**	*Support*	256926	$34.00
Level 2: Investigation Book: Problems to Think About Copyright / ISBN **1992 / 0771532865 (Package of 5)**	*Support*	256900	$34.00
Level 2: Investigation Book: Shape, Movement and Location Copyright / ISBN **1992 / 0771532911 (Package of 5)**	*Support*	256950	$34.00

GRADE 4 SERIES

	Order No.	Est. Cost

Activity Cards

The Activity Cards provide practical, open-ended activities with teacher notes, focus points, and cross references to similar activities in other components (listed on the back of each card).

Level 2 (3-4): Measurement: Activity Cards Copyright / ISBN **1992 / 0771532792**	***Support***	**256801**	**$44.65**
Level 2 (3-4): Number: Activity Cards Copyright / ISBN **1992 / 0771532776**	***Support***	**256877**	**$44.65**
Level 2 (3-4): Space: Data Collection and Representation: Activity Cards Copyright / ISBN **1992 / 0771532784**	***Support***	**256885**	**$44.65**

Lap Book Packs

Lap Books can be used to introduce a math session or provide motivation to explore topics. They provide problem situations and games for small groups, pairs, individuals or the whole class.

Level 2: Lap Book Pack (Includes: Find the Shapes and Follow the Directions; Numbers! Numbers!; What Can You Measure?) Copyright / ISBN **1992 / 0771532954 (Package of 3 Titles)**	***Support***	**256786**	**$39.35**

Student Profile Books

Each Student Profile Book contains activities to demonstrate understanding of mathematics in a variety of ways and help teachers profile student work throughout the year.

Level 2a: Student Profile Book Copyright / ISBN **1992 / 077153275X (Package of 10)**	***Support***	**256851**	**$44.65**
Level 2b: Student Profile Book Copyright / ISBN **1992 / 0771532768 (Package of 10)**	***Support***	**256869**	**$44.65**

INTERACTIONS

Authors: Jack Hope and Marian Small
Publisher/Distributor: Mimosa Publications / Ginn Publishing Canada

Interactions is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. This multi-component resource includes a Teacher's Resource Binder, Blackline Masters (included in the binder), Activity Cards (Pre-Grade 1 to Grade 2), See What I Can Do booklets (Pre-Grade 1 to Grade 2), and student texts (Grades 3, 4, 5 and 6 only). Pre-Grade 1 has a big book in place of the activity cards. The literature component for Pre-Grade 1 to Grade 3 includes Read Together Books and Mathtales and provides a real world context for developing concepts. There are developmental and investigative units for each grade. The strands are integrated in these units but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level. This series is available for Pre-Grade 1 to Grade 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Binder

The Teacher Resource Binder includes activities and approaches for planning, teaching, extending, enriching and assessing a balanced math program and provides opportunities for students to construct and apply mathematical knowledge. Each binder includes a program information booklet; developmental and investigation units; a mathematics and children's literature booklet; and a blackline masters book.

Interactions 4: Teacher's Resource Binder (Includes Blackline Masters) — ***Authorized Teaching*** — **257429** — **$74.45**

Copyright / ISBN **1993 / 0770223524 (Teacher's Resource Binder)**
0770223559 (Blackline Masters)

STUDENT COMPONENTS

Student Text

With an emphasis on real life and context-based mathematics, these texts encourage students to communicate and express ideas through talking, writing and using representational forms.

Interactions 4 (Student Text) — ***Basic*** — **257453** — **$20.20**

Copyright / ISBN **1993 / 0770223516**

MATHQUEST

Authors: Brendan Kelly et al.
Publisher/Distributor: Addison-Wesley

Mathquest is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and provides continuous evaluation to promote diagnostic teaching. This multi-component resource includes a program manual, file folder games, student books and a teacher resource book (with evaluation component). The program is designed to motivate children and bring mathematics into their world. This series is available for Grades 1 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book contains reproducible blackline masters in a three-ring binder. Three sections include an evaluation component, a reteaching component and problem solving evaluation.

MathQuest Four: Teacher's Resource Book ***Authorized Teaching*** **130899** **$50.40**
Copyright / ISBN **1988 / 0201194023**

Program Manual

The Program Manual provides conceptual development through activities and manipulation of concrete materials. Reinforcement activities, enrichment and reteaching activities, home projects, file folder games and suggestions for integration are included.

MathQuest Four: Program Manual ***Authorized Teaching*** **130881** **$70.65**
Copyright / ISBN **1988 / 0201602210**

File Folder Games

All File Folder Games from the Mathquest Program Manual are enlarged and reproduced. Each package includes game instructions, artwork and/or gameboards, and cards and/or spinners.

MathQuest Four: File Folder Games ***Authorized Teaching*** **130906** **$43.80**
Copyright / ISBN **1989 / 0201194031**

STUDENT COMPONENTS

Student Books

Students Books use high quality, colourful art and interesting and relevant examples to appeal to students. Strong pictorial support facilitates the progression from concrete to symbolic. Concepts are introduced through analogies drawn from familiar settings, and skills are reinforced through practice exercises.

MathQuest 4 (Student's Edition) ***Basic*** **130914** **$24.75**
Copyright / ISBN **1986 / 0201194007**

MATHWORLDS

Publisher/Distributor: Reidmore Books

Mathworlds is a modular math program. Math concepts and skills are experienced and learned as students encounter 15 different "worlds" that have direct connection to their lives. Each grade level consists of a program kit and five different module kits that teach mathematics through a variety of hands-on activities. This series is available for Grades 4 to 6, with Grades 5 and 6 under development and to be completed in the 1994-1995 school year.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Program Kit

The Program Kit for each grade level contains program notes and grade-level materials. The Program Notes provide a global overview of the MathWorlds program and help in planning and understanding the overall design of modules and lessons. Grade-level materials (such as a problem solving poster, number facts charts, and hundreds charts) are provided only once per grade level.

Mathworlds: Program Kit — *Authorized Teaching* — **275629** — **TBA**
Copyright / ISBN **1993 / 1895073847**

Module Kit

The Module Kits contain module notes, special module materials and a photo-CD. The Module Notes are the teacher's guide for a single MathWorld. Each binder contains lesson plans, copy masters, appendices, a Problem Solving File and a Test Item File. Materials such as action cards, costume items, manipulatives, data booklets and photographic prints are included in a kit. The photo-CD contains at least 100 slides that can be viewed using the Kodak Photo-CD player and television or a computer with a CD-ROM drive.

Collectors' Clubhouse Module — *Authorized Teaching* — **275570** — **TBA**
Copyright / ISBN **1994 / 1895073731**

Factory Module — *Authorized Teaching* — **275588** — **TBA**
Copyright / ISBN **1994 / 1895073715**

Fire Hall Module — *Authorized Teaching* — **275596** — **TBA**
Copyright / ISBN **1993 / 1895073650**

Trading Post Module — *Authorized Teaching* — **275603** — **TBA**
Copyright / ISBN **1994 / 1895073774**

Underwater World Module — *Authorized Teaching* — **275611** — **TBA**
Copyright / ISBN **1993 / 1895073634**

Complete Kit

Includes all five modules: Collector's Clubhouse, Factory, Fire Hall, Trading Post and Underwater World, and one Program Kit.

MathWorlds 4 Complete Kit — *Authorized Teaching* — **275637** — **TBA**
Copyright **1994**

SAIL THROUGH MATHEMATICS

Authors: Richard R. Skemp
Publisher/Distributor: Ecumar Effectiveness Consultants

Structured Activities for Intelligent Learning ((SA!L) consists of structured and sequenced mathematical learning activities that enable students to construct understanding through direct experience, communication with others and creative extrapolation. The learning activities provide opportunities for cooperative group work and discussion. Volumes 2 and 2a are authorized for Grades 3 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book provides strategies and activities for elementary school mathematics teaching and learning. Clusters of activities enable students to construct networks of mathematical ideas by building and testing them.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2 (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719027**

Blackline Masters

Volume 2a: Photomasters includes blackline masters to complement Volume 2 activities.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2a: Photomasters (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719035**

ACTIVE LEARNING

Publisher/Distributor: Exclusive Educational Products

The *Active Learning* series is an ever-expanding set of binders that provide suggestions for actively involving students in solving problems, with a special emphasis on using manipulatives. The strands are integrated and evaluation techniques are provided. The activities are in large workcard format. Components in this series are available for Grades 1 to 6.

SUPPLIER: **LRDC**

TEACHING COMPONENTS

Order No. Est. Cost

Teacher Resource Binders

101 Winning Ways with Base Ten: Junior Level (Grades 4-6) — ***Authorized Teaching*** — **235631** — **$34.15**

Copyright **1990**

This resource uses base ten materials in problem-solving contexts to develop understanding of place value and operation (+, -, x, ÷) with whole numbers and decimals. Emphasis is placed on estimation and regrouping. Evaluation techniques are provided.

200 Things to Do with Logic Blocks: Level K-8 — ***Authorized Teaching*** — **236241** — **$33.15**

Copyright **1991**

This resource provides many ideas on how to actively involve students in developing understanding of classification, sets, the problem-solving strategy of logical reasoning, symmetry, motion geometry, and the angle sum of triangles and quadrilaterals.

Active Overheads: Grades 4 - 6 — ***Authorized Teaching*** — **254384** — **$30.10**

Copyright **1992**

This binder of materials provides a wide variety of ideas on effectively using manipulatives on the overhead projector to help students develop and demonstrate understanding of mathematics. Each activity includes suggestions for the teacher and the student. This resource is also authorized for Grade 7.

Complete Book of Cube-A-Link, The: Activities for Grades 5-8 — ***Authorized Teaching*** — **234542** — **$25.10**

Copyright **1989**

This resource provides activity-oriented materials using cube-a-links, centicubes, cube-a-link tiles and cube-a-link stickers. Connections among concrete, pictorial and symbolic representations are emphasized as students develop an understanding of isometric drawings, patterns, perimeter, area, volume, primes, composities, probability and prisms. This resource is also authorized for Grades 7 and 8.

Geoboard Collection, The: An Adventure in Mathematics: Junior Level (Grades 4-6) — ***Authorized Teaching*** — **235649** — **$31.15**

Copyright **1990**

This geoboard collection includes investigation activities using the 5x5 geoboard and geopaper with suggestions for cooperative learning. It provides hands-on geoboard activities to develop understanding of motion geometry, symmetry, two-dimensional figures, perimeter, area and fractions. Evaluation techniques are provided.

Measure It! Junior Level (Grades 4-6) — ***Authorized Teaching*** — **236267** — **$30.10**

Copyright **1992**

This resource provides many ideas on how to actively involve students in developing an understanding of length, area, mass, volume and capacity. Length includes km, m, cm and mm. Mass includes kg and g. Capacity includes L and mL. Evaluation techniques are provided.

GRADE 5 SERIES

		Order No.	Est. Cost
Pattern Blocks: Grades 4-6	***Authorized Teaching***	**235615**	**$30.10**

Copyright **1989**

This resource provides many ideas on how to actively involve students in developing an understanding of patterning, perimeter, area, fractions, symmetry and motion geometry. The problem-solving strategies include trial and error, using manipulatives and logical reasoning. Evaluation techniques are provided.

Problem-Solving: What You Do, When You Don't Know What to Do! Grades 4 - 9	***Authorized Teaching***	**254392**	**$25.10**

Copyright **1991**

This resource describes the problem-solving process and includes a wide variety of strategies to solve problems. Each strategy is explained with a problem example followed by other problems that could be solved using this strategy. Evaluation techniques are included. This resource is also authorized for Grades 7 to 9.

Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades	***Authorized Teaching***	**236283**	**$30.10**

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of solids, faces, lines and points, and transformations (symmetry, slides, flips, and turns). The program manual at the beginning of the resource guides the teacher in the use of this resource and in integrating assessment.

GAGE ACTIVE MATHEMATICS

Authors: Lynn Davie and Cathy Beesey
Publisher/Distributor: Gage Educational Publishing

Gage Active Mathematics is a non-text, activity-based collection designed to offer a child-centered learning and active problem solving approach. The components include a teacher's resource book, lap books, investigation books, blackline masters, activity cards and student profile books. The topics include: number, measurement, money, space, data collection and representation, and problems to solve. This series is available in three levels: Level 1 (Pre-Grade 1 to Grade 2); Level 2 (Grades 3 and 4); and Level 3 (Grades 5 and 6).

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher Resource Materials			
The Teacher Resource Book assists teachers in making decisions about organizing their classroom programs and provides a bank of practical activities to develop understanding in mathematics. The Blackline Masters contain practical activities that relate to the focus points for each topic.			
Level 3 (5-6): Teacher's Resource Book Copyright / ISBN **1994 / 0771532989**	*Authorized Teaching*	267840	$58.50
Level 3 (5-6): Measurement: Blackline Masters Copyright / ISBN **1994 / 0771533012**	*Authorized Teaching*	267858	$34.00
Level 3 (5-6): Number: Blackline Masters Copyright / ISBN **1994 / 0771533004**	*Authorized Teaching*	267866	$34.00
Level 3 (5-6): Space: Data Collection and Representation: Blackline Masters Copyright / ISBN **1994 / 0771532997**	*Authorized Teaching*	267874	$34.00
STUDENT COMPONENTS			
Investigation Books			
Investigation Books offer a variety of open-ended activities that encourage students to investigate the environment around them. Cross-curricular topics are provided, and skills are integrated.			
Level 3: Investigation Book: Measuring Matters Copyright / ISBN **1994 / 0771533519 (Package of 5)**	*Support*	267915	$39.35
Level 3: Investigation Book: Money Problems Copyright / ISBN **1994 / 0771533535 (Package of 5)**	*Support*	267923	$39.35
Level 3: Investigation Book: Problems and Solutions Copyright / ISBN **1994 / 0771533497 (Package of 5)**	*Support*	267931	$39.35
Level 3: Investigation Book: Representing Data Copyright / ISBN **1994 / 0771533500 (Package of 5)**	*Support*	267949	$39.35
Level 3: Investigation Book: The Space Around Us Copyright / ISBN **1994 / 0771533543 (Package of 5)**	*Support*	267957	$39.35
Level 3: Investigation Book: Working with Numbers Copyright / ISBN **1994 / 0771533527 (Package of 5)**	*Support*	267965	$39.35

		Order No.	Est. Cost
Level 3: Investigation Books (Includes 1 each of: Measuring Matters; Money Problems; Problems and Solutions; Representing Data; The Space Around Us; Working with Numbers) Copyright / ISBN **1994 / 0771533551 (Package of 6)**	***Support***	**267973**	**$47.85**

Activity Cards

The Activity Cards provide practical, open-ended activities with teacher notes, focus points, and cross references to similar activities in other components (listed on the back of each card).

Level 3 (5-6): Measurement: Activity Cards Copyright / ISBN **1994 / 0771533101**	***Support***	**267882**	**$44.65**
Level 3 (5-6): Number: Activity Cards Copyright / ISBN **1994 / 077153308X**	***Support***	**267890**	**$44.65**
Level 3 (5-6): Space: Data Collection and Representation: Activity Cards Copyright / ISBN **1994 / 0771533098**	***Support***	**267874**	**$34.00**

Student Profile Books

Each Student Profile Book contains activities to demonstrate understanding of mathematics in a variety of ways and help teachers profile student work throughout the year.

Level 3a: Student Profile Book Copyright / ISBN **1994 / 0771533055 (Package of 10)**	***Support***	**267981**	**$44.65**
Level 3b: Student Profile Book Copyright / ISBN **1994 / 0771533063 (Package of 10)**	***Support***	**267999**	**$44.65**
Level 3c: Student Profile Book Copyright / ISBN **1994 / 0771533071 (Package of 10)**	***Support***	**268004**	**$44.65**

INTERACTIONS

Authors: Jack Hope and Marian Small
Publisher/Distributor: Mimosa Publications / Ginn Publishing Canada

Interactions is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. This multi-component resource includes a Teacher's Resource Binder, Blackline Masters (included in the binder), Activity Cards (Pre-Grade 1 to Grade 2), See What I Can Do booklets (Pre-Grade 1 to Grade 2), and student texts (Grades 3, 4, 5 and 6 only). Pre-Grade 1 has a big book in place of the activity cards. The literature component for Pre-Grade 1 to Grade 3 includes Read Together Books and Mathtales and provides a real world context for developing concepts. There are developmental and investigative units for each grade. The strands are integrated in these units but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level. This series is available for Pre-Grade 1 to Grade 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Binder

The Teacher Resource Binder includes activities and approaches for planning, teaching, extending, enriching and assessing a balanced math program and provides opportunities for students to construct and apply mathematical knowledge. Each binder includes a program information booklet; developmental and investigation units; a mathematics and children's literature booklet; and a blackline masters book.

Interactions 5: Teacher's Resource Binder (Includes Blackline Masters) — ***Authorized Teaching*** — **266826** — **$74.45**

Copyright / ISBN **1994 / 0770223656 (Teacher's Resource Binder)**
0770223682 (Blackline Masters)

STUDENT COMPONENTS

Student Text

With an emphasis on real life and context-based mathematics, these texts encourage students to communicate and express ideas through talking, writing and using representational forms.

Interactions 5 (Student Text) — ***Basic*** — **266793** — **$20.20**

Copyright / ISBN **1994 / 0770223648**

MATHQUEST

Authors: Brendan Kelly et al.
Publisher/Distributor: Addison-Wesley

Mathquest is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and provides continuous evaluation to promote diagnostic teaching. This multi-component resource includes a program manual, file folder games, student books and a teacher resource book (with evaluation component). The program is designed to motivate children and bring mathematics into their world. This series is available for Grades 1 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book contains reproducible blackline masters in a three-ring binder. Three sections include an evaluation component, a reteaching component and problem solving evaluation.

MathQuest Five: Teacher's Resource Book *Authorized Teaching* **131144** **$50.40**
Copyright / ISBN **1988 / 020119502X**

Program Manual

The Program Manual provides conceptual development through activities and manipulation of concrete materials. Reinforcement activities, enrichment and reteaching activities, home projects, file folder games and suggestions for integration are included.

MathQuest Five: Program Manual *Authorized Teaching* **131136** **$70.65**
Copyright / ISBN **1988 / 0201602229**

File Folder Games

All File Folder Games from the Mathquest Program Manual are enlarged and reproduced. Each package includes game instructions, artwork and/or gameboards, and cards and/or spinners.

MathQuest Five: File Folder Games *Authorized Teaching* **131152** **$43.80**
Copyright / ISBN **1990 / 0201195038**

STUDENT COMPONENTS

Student Books

Students Books use high quality, colourful art and interesting and relevant examples to appeal to students. Strong pictorial support facilitates the progression from concrete to symbolic. Concepts are introduced through analogies drawn from familiar settings, and skills are reinforced through practice exercises.

MathQuest 5 (Student's Edition) *Basic* **131160** **$24.75**
Copyright / ISBN **1987 / 0201195003**

MATHWORLDS

Publisher/Distributor: Reidmore Books

Mathworlds is a modular math program. Math concepts and skills are experienced and learned as students encounter 15 different "worlds" that have direct connection to their lives. Each grade level consists of a program kit and five different module kits that teach mathematics through a variety of hands-on activities. This series is available for Grades 4 to 6, with Grades 5 and 6 under development and to be completed in the 1994-1995 school year.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Module Kit

The Module Kits contain module notes, special module materials and a photo-CD. The Module Notes are the teacher's guide for a single MathWorld. Each binder contains lesson plans, copy masters, appendices, a Problem Solving File and a Test Item File. Materials such as action cards, costume items, manipulatives, data booklets and photographic prints are included in a kit. The photo-CD contains at least 100 slides that can be viewed using the Kodak Photo-CD player and television or a computer with a CD-ROM drive.

Detective Agency Module Copyright / ISBN **1993 / 1895073804**	***Authorized Teaching***	**279126**	**TBA**
Space Trek Module Copyright / ISBN **1994 / 1895073563**	***Authorized Teaching***	**279134**	**TBA**

SAIL THROUGH MATHEMATICS

Authors: Richard R. Skemp
Publisher/Distributor: Ecumar Effectiveness Consultants

Structured Activities for Intelligent Learning ((SAIL) consists of structured and sequenced mathematical learning activities that enable students to construct understanding through direct experience, communication with others and creative extrapolation. The learning activities provide opportunities for cooperative group work and discussion. Volumes 2 and 2a are authorized for Grades 3 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book provides strategies and activities for elementary school mathematics teaching and learning. Clusters of activities enable students to construct networks of mathematical ideas by building and testing them.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2 (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719027**

Blackline Masters

Volume 2a: Photomasters includes blackline masters to complement Volume 2 activities.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2a: Photomasters (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719035**

ACTIVE LEARNING

Publisher/Distributor: Exclusive Educational Products

The *Active Learning* series is an ever-expanding set of binders that provide suggestions for actively involving students in solving problems, with a special emphasis on using manipulatives. The strands are integrated and evaluation techniques are provided. The activities are in large workcard format. Components in this series are available for Grades 1 to 6.

SUPPLIER: **LRDC**

TEACHING COMPONENTS

Order No. Est. Cost

Teacher Resource Binders

101 Winning Ways with Base Ten: Junior Level (Grades 4-6) — ***Authorized Teaching*** — **235631** — **$34.15**

Copyright **1990**

This resource uses base ten materials in problem-solving contexts to develop understanding of place value and operation (+, -, x, ÷) with whole numbers and decimals. Emphasis is placed on estimation and regrouping. Evaluation techniques are provided.

200 Things to Do with Logic Blocks: Level K-8 — ***Authorized Teaching*** — **236241** — **$33.15**

Copyright **1991**

This resource provides many ideas on how to actively involve students in developing understanding of classification, sets, the problem-solving strategy of logical reasoning, symmetry, motion geometry, and the angle sum of triangles and quadrilaterals.

Active Overheads: Grades 4 - 6 — ***Authorized Teaching*** — **254384** — **$30.10**

Copyright **1992**

This binder of materials provides a wide variety of ideas on effectively using manipulatives on the overhead projector to help students develop and demonstrate understanding of mathematics. Each activity includes suggestions for the teacher and the student. This resource is also authorized for Grade 7.

Complete Book of Cube-A-Link, The: Activities for Grades 5-8 — ***Authorized Teaching*** — **234542** — **$25.10**

Copyright **1989**

This resource provides activity-oriented materials using cube-a-links, centicubes, cube-a-link tiles and cube-a-link stickers. Connections among concrete, pictorial and symbolic representations are emphasized as students develop an understanding of isometric drawings, patterns, perimeter, area, volume, primes, composities, probability and prisms. This resource is also authorized for Grades 7 and 8.

Geoboard Collection, The: An Adventure in Mathematics: Junior Level (Grades 4-6) — ***Authorized Teaching*** — **235649** — **$31.15**

Copyright **1990**

This geoboard collection includes investigation activities using the 5x5 geoboard and geopaper with suggestions for cooperative learning. It provides hands-on geoboard activities to develop understanding of motion geometry, symmetry, two-dimensional figures, perimeter, area and fractions. Evaluation techniques are provided.

Measure It! Junior Level (Grades 4-6) — ***Authorized Teaching*** — **236267** — **$30.10**

Copyright **1992**

This resource provides many ideas on how to actively involve students in developing an understanding of length, area, mass, volume and capacity. Length includes km, m, cm and mm. Mass includes kg and g. Capacity includes L and mL. Evaluation techniques are provided.

GRADE 6 SERIES

		Order No.	Est. Cost
Pattern Blocks: Grades 4-6	***Authorized Teaching***	**235615**	**$30.10**

Copyright **1989**

This resource provides many ideas on how to actively involve students in developing an understanding of patterning, perimeter, area, fractions, symmetry and motion geometry. The problem-solving strategies include trial and error, using manipulatives and logical reasoning. Evaluation techniques are provided.

Problem-Solving: What You Do, When You Don't Know What to Do! Grades 4 - 9	***Authorized Teaching***	**254392**	**$25.10**

Copyright **1991**

This resource describes the problem-solving process and includes a wide variety of strategies to solve problems. Each strategy is explained with a problem example followed by other problems that could be solved using this strategy. Evaluation techniques are included. This resource is also authorized for Grades 7 to 9.

Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades	***Authorized Teaching***	**236283**	**$30.10**

Copyright **1991**

This resource provides many ideas on how to actively involve students in constructing the meaning of solids, faces, lines and points, and transformations (symmetry, slides, flips, and turns). The program manual at the beginning of the resource guides the teacher in the use of this resource and in integrating assessment.

GAGE ACTIVE MATHEMATICS

Authors: Lynn Davie and Cathy Beesey
Publisher/Distributor: Gage Educational Publishing

Gage Active Mathematics is a non-text, activity-based collection designed to offer a child-centered learning and active problem solving approach. The components include a teacher's resource book, lap books, investigation books, blackline masters, activity cards and student profile books. The topics include: number, measurement, money, space, data collection and representation, and problems to solve. This series is available in three levels: Level 1 (Pre-Grade 1 to Grade 2); Level 2 (Grades 3 and 4); and Level 3 (Grades 5 and 6).

SUPPLIER: **LRDC**

		Order No.	Est. Cost
TEACHING COMPONENTS			
Teacher Resource Materials			
The Teacher Resource Book assists teachers in making decisions about organizing their classroom programs and provides a bank of practical activities to develop understanding in mathematics. The Blackline Masters contain practical activities that relate to the focus points for each topic.			
Level 3 (5-6): Teacher's Resource Book Copyright / ISBN **1994 / 0771532989**	*Authorized Teaching*	267840	$58.50
Level 3 (5-6): Measurement: Blackline Masters Copyright / ISBN **1994 / 0771533012**	*Authorized Teaching*	267858	$34.00
Level 3 (5-6): Number: Blackline Masters Copyright / ISBN **1994 / 0771533004**	*Authorized Teaching*	267866	$34.00
Level 3 (5-6): Space: Data Collection and Representation: Blackline Masters Copyright / ISBN **1994 / 0771532997**	*Authorized Teaching*	267874	$34.00
STUDENT COMPONENTS			
Investigation Books			
Investigation Books offer a variety of open-ended activities that encourage students to investigate the environment around them. Cross-curricular topics are provided, and skills are integrated.			
Level 3: Investigation Book: Measuring Matters Copyright / ISBN **1994 / 0771533519 (Package of 5)**	*Support*	267915	$39.35
Level 3: Investigation Book: Money Problems Copyright / ISBN **1994 / 0771533535 (Package of 5)**	*Support*	267923	$39.35
Level 3: Investigation Book: Problems and Solutions Copyright / ISBN **1994 / 0771533497 (Package of 5)**	*Support*	267931	$39.35
Level 3: Investigation Book: Representing Data Copyright / ISBN **1994 / 0771533500 (Package of 5)**	*Support*	267949	$39.35
Level 3: Investigation Book: The Space Around Us Copyright / ISBN **1994 / 0771533543 (Package of 5)**	*Support*	267957	$39.35
Level 3: Investigation Book: Working with Numbers Copyright / ISBN **1994 / 0771533527 (Package of 5)**	*Support*	267965	$39.35

		Order No.	Est. Cost
Level 3: Investigation Books (Includes 1 each of: Measuring Matters; Money Problems; Problems and Solutions; Representing Data; The Space Around Us; Working with Numbers) Copyright / ISBN **1994 / 0771533551 (Package of 6)**	***Support***	**267973**	**$47.85**

Activity Cards

The Activity Cards provide practical, open-ended activities with teacher notes, focus points, and cross references to similar activities in other components (listed on the back of each card).

Level 3 (5-6): Measurement: Activity Cards Copyright / ISBN **1994 / 0771533101**	***Support***	**267882**	**$44.65**
Level 3 (5-6): Number: Activity Cards Copyright / ISBN **1994 / 077153308X**	***Support***	**267890**	**$44.65**
Level 3 (5-6): Space: Data Collection and Representation: Activity Cards Copyright / ISBN **1994 / 0771533098**	***Support***	**267874**	**$34.00**

Student Profile Books

Each Student Profile Book contains activities to demonstrate understanding of mathematics in a variety of ways and help teachers profile student work throughout the year.

Level 3a: Student Profile Book Copyright / ISBN **1994 / 0771533055 (Package of 10)**	***Support***	**267981**	**$44.65**
Level 3b: Student Profile Book Copyright / ISBN **1994 / 0771533063 (Package of 10)**	***Support***	**267999**	**$44.65**
Level 3c: Student Profile Book Copyright / ISBN **1994 / 0771533071 (Package of 10)**	***Support***	**268004**	**$44.65**

INTERACTIONS

Authors: Jack Hope and Marian Small
Publisher/Distributor: Mimosa Publications / Ginn Publishing Canada

Interactions is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and integrates evaluation to promote diagnostic teaching. This multi-component resource includes a Teacher's Resource Binder, Blackline Masters (included in the binder), Activity Cards (Pre-Grade 1 to Grade 2), See What I Can Do booklets (Pre-Grade 1 to Grade 2), and student texts (Grades 3, 4, 5 and 6 only). Pre-Grade 1 has a big book in place of the activity cards. The literature component for Pre-Grade 1 to Grade 3 includes Read Together Books and Mathtales and provides a real world context for developing concepts. There are developmental and investigative units for each grade. The strands are integrated in these units but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level. This series is available for Pre-Grade 1 to Grade 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Binder

The Teacher Resource Binder includes activities and approaches for planning, teaching, extending, enriching and assessing a balanced math program and provides opportunities for students to construct and apply mathematical knowledge. Each binder includes a program information booklet; developmental and investigation units; a mathematics and children's literature booklet; and a blackline masters book.

Interactions 6: Teacher's Resource Binder (Includes Blackline Masters) — ***Authorized Teaching*** — **266834** — **$74.45**

Copyright / ISBN **1994 / 0770223761 (Teacher's Resource Binder)**
0770223796 (Blackline Masters)

STUDENT COMPONENTS

Student Text

With an emphasis on real life and context-based mathematics, these texts encourage students to communicate and express ideas through talking, writing and using representational forms.

Interactions 6 (Student Text) — ***Basic*** — **266800** — **$20.20**

Copyright / ISBN **1994 / 0770223753**

MATHQUEST

Authors: Brendan Kelly et al.
Publisher/Distributor: Addison-Wesley

Mathquest is an activity-based program that integrates problem solving, emphasizes the connections among manipulatives, diagrams and symbols, and provides continuous evaluation to promote diagnostic teaching. This multi-component resource includes a program manual, file folder games, student books and a teacher resource book (with evaluation component). The program is designed to motivate children and bring mathematics into their world. This series is available for Grades 1 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book contains reproducible blackline masters in a three-ring binder. Three sections include an evaluation component, a reteaching component and problem solving evaluation.

MathQuest Six: Teacher's Resource Book ***Authorized Teaching*** **131384** **$50.40**
Copyright / ISBN **1988 / 0201196026**

Program Manual

Program Manuals provide conceptual development through activities and manipulation of concrete materials. Reinforcement activities, enrichment and reteaching activities, home projects, file folder games and suggestions for integration are included.

MathQuest Six: Program Manual ***Authorized Teaching*** **131376** **$70.65**
Copyright / ISBN **1988 / 0201602237**

File Folder Games

All File Folder Games from the Mathquest Program Manual are enlarged and reproduced. Each package includes game instructions, artwork and/or gameboards, and cards and/or spinners.

MathQuest Six: File Folder Games ***Authorized Teaching*** **131392** **$43.80**
Copyright / ISBN **1990 / 0201196034**

STUDENT COMPONENTS

Student Books

Students Books use high quality, colourful art and interesting and relevant examples to appeal to students. Strong pictorial support facilitates the progression from concrete to symbolic. Concepts are introduced through analogies drawn from familiar settings, and skills are reinforced through practice exercises.

MathQuest 6 (Student's Edition) ***Basic*** **131409** **$24.75**
Copyright / ISBN **1987 / 020119600X**

SAIL THROUGH MATHEMATICS

Authors: Richard R. Skemp
Publisher/Distributor: Ecumar Effectiveness Consultants

Structured Activities for Intelligent Learning ((SAIL) consists of structured and sequenced mathematical learning activities that enable students to construct understanding through direct experience, communication with others and creative extrapolation. The learning activities provide opportunities for cooperative group work and discussion. Volumes 2 and 2a are authorized for Grades 3 to 6.

SUPPLIER: **LRDC**

Order No. Est. Cost

TEACHING COMPONENTS

Teacher Resource Book

The Teacher Resource Book provides strategies and activities for elementary school mathematics teaching and learning. Clusters of activities enable students to construct networks of mathematical ideas by building and testing them.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2 (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719027**

Blackline Masters

Volume 2a: Photomasters includes blackline masters to complement Volume 2 activities.

SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2a: Photomasters (Expanded North American Ed.) — ***Authorized Teaching*** — **TBA**

Copyright / ISBN **1994 / 0969719035**

About Teaching Mathematics: A K-8 Resource

Grade Pre-1, 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Burns, M.
Copyright / ISBN 1992 / 0941355055
Publisher Math Solutions Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 277534 **Est. Cost** $35.65

This teacher resource book focuses on using problem solving to develop and demonstrate understanding in all strands. It is based on the NCTM standards. This resource is also authorized for Grades 7 and 8.

Activity Based Mathematics: Algebra; Geometry; Measurement; Data Analysis; Numbers and Number Operations

Series: *Activity Based Mathematics*

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Copyright 1988
Publisher Simon Fraser University
Distributor Magic Lantern Film Distributors
Supplier ACCESS NETWORK
Order No. BPN 319800 **Est. Cost** $50.75

This five-part video series emphasizes the use of concrete materials to help children learn mathematics. "Algebra" is introduced to students as a language which has many interesting aspects and practical uses. In "Geometry" students explore shape classification; two- and three-dimensional figures; and the use of a geoboard. In "Measurement" students focus on the measurement of area and the central importance of standard measurement units. "Data Analysis" develops a better understanding of statistics and how to present and interpret information. "Numbers and Number Operations" demonstrates place values and counting and provides an introduction to algebraic equations.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: March 14, 1995

Autoskill Mathematics Program (Canadian Macintosh Beta Version 1.0.1)

Grades 4, 5, 6 ***Authorized Teaching***

Copyright 1985-1992
Publisher Autoskill International
Distributor Autoskill International
Supplier Publisher / Distributor
Est. Cost $600.00

This resource provides detailed testing in 8 levels on numeration, operations, fractions, equations, measurement, geometry and graphing. Each strand is divided into tutorials, terms, operations and problems.

Blockers and Finders (Macintosh Version)

Grades 1, 2, 3, 4, 5, 6 ***Support***

Author(s): O'Brien, T.C.
Copyright / ISBN 1989 / 1558265937
Publisher Sunburst / *Wings for Learning*
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283466 **Est. Cost** $143.55

In these three games, students search for hidden "Blockers" that divert the path of "Finders" as they move through a grid. Blockers and Finders encourages students to draw inferences and devise alternatives in order to reach a goal.

Bradford Problem Solving: Decimals (Macintosh Version)

Series: *Bradford Problem Solving*

Grades 3, 4, 5, 6 ***Support***

Copyright / ISBN 1993 / 1559306300
Publisher William K. Bradford Publishing Company
Distributor D.C. Heath Canada Ltd.
Supplier LRDC
Order No. 283888 **Est. Cost** $114.75

The *Bradford Problem Solving* program is designed to help students practise computational skills in relevant contexts and become mathematical problem solvers. This program on decimals includes challenging problems using all operations.

Bradford Problem Solving: Ratio and Percent (Macintosh Version)

Series: *Bradford Problem Solving*

Grade 6 ***Support***

Copyright / ISBN 1993 / 1559306300
Publisher William K. Bradford Publishing Company
Distributor D.C. Heath Canada
Supplier LRDC
Order No. 284133 **Est. Cost** $114.75

The *Bradford Problem Solving* program is designed to help students practise computational skills in relevant contexts and become mathematical problem solvers. This program on ratio and percent includes ratio and proportion and fraction and percent problems.

Bradford Problem Solving: Whole Numbers (Macintosh Version)

Series: *Bradford Problem Solving*

Grades 3, 4, 5, 6 ***Support***

Copyright / ISBN 1993 / 1559306300
Publisher William K. Bradford Publishing Company
Distributor D.C. Heath Canada Ltd.
Supplier LRDC
Order No. 283896 **Est. Cost** $114.75

The *Bradford Problem Solving* program is designed to help students practise computational skills in relevant contexts and become mathematical problem solvers. This program on whole numbers includes problems using addition, subtraction, multiplication and division.

Brainwaves: Using Mathematics Together

Grades 4, 5, 6 ***Authorized Teaching***

Author(s): Barry, B.
Copyright / ISBN 1988 / 0729503364
Publisher Harcourt Brace Jovanovich
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 254300 **Est. Cost** $39.80

This resource includes activities, games and projects to enrich mathematics programs and build skills in investigation, communication and problem solving. Emphasis is placed on cooperative learning.

Chaffin & Maxwell's Math Masters: Addition & Subtraction (Apple II Version)

Grades 1, 2, 3, 4, 5, 6 ***Support***

Copyright / ISBN 1988 / 0895055767
Publisher DLM Teaching Resources
Distributor DLM Teaching Resources
Supplier LRDC
Order No. 284349 **Est. Cost** $92.00

This program uses a game format to provide practice in basic addition and subtraction skills. Each child's progress can be monitored.

Collection of Math Lessons, A: From Grades 1 through 3

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Burns, M.; Tank, B.
Copyright / ISBN 1988 / 0941355012
Publisher Math Solution
Distributor Addison-Wesley
Supplier LRDC
Order No. 253493 **Est. Cost** $22.90

This book includes a series of model lessons on integrating the strands, problem solving, manipulatives and estimation. These concepts are presented in a problem solving setting and the model lessons make use of manipulatives. Students are actively involved in groups as they discover concepts.

Collection of Math Lessons, A: From Grades 3 through 6

Grades 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Burns, M.
Copyright / ISBN 1987 / 0941355004
Publisher Math Solution
Distributor Addison-Wesley
Supplier LRDC
Order No. 253500 **Est. Cost** $22.90

This book, a series of model lessons, integrates the strands. Concepts are presented in a problem solving setting, and make use of manipulatives. Students are actively involved in groups as they discover concepts.

Connections: Linking Manipulatives to Mathematics: Grade 1

Grade 1 ***Authorized Teaching***

Author(s): Brummett, M.R.; Charles, L.H.
Copyright / ISBN 1989 / 0884887685
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253419 **Est. Cost** $37.25

Connections is a series of six resource books for grades 1 to 6. Each book contains 20 lessons to teach topics suitable for the grade level. The series provides many ideas for using manipulatives in learning mathematics.

Connections: Linking Manipulatives to Mathematics: Grade 2

Grade 2 ***Authorized Teaching***

Author(s): Brummett, Micaelia Randolph; Charles, Linda
Copyright / ISBN 1989 / 0884887693
Publisher Creative Publications
Distributor Addison-Wesley Publishers
Supplier LRDC
Order No. 253427 **Est. Cost** $37.25

Connections is a series of six resource books for Grades 1 to 6. Each book contains 20 lessons to teach topics suitable for the grade level. The series provides many ideas for using manipulatives in learning mathematics.

Connections: Linking Manipulatives to Mathematics: Grade 3

Grade 3 ***Authorized Teaching***

Author(s): Brummett, M.R.; Charles, L.H.
Copyright / ISBN 1989 / 0884887707
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253435 **Est. Cost** $37.25

Connections is a series of six resource books for grades 1 to 6. Each book contains 20 lessons to teach topics suitable for the grade level. The series provides many ideas for using manipulatives in learning mathematics.

Connections: Linking Manipulatives to Mathematics: Grade 4

Grade 4 ***Authorized Teaching***

Author(s): Brummett, M.R.; Charles, L.H.
Copyright / ISBN 1989 / 0884887715
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253443 **Est. Cost** $37.25

Connections is a series of six resource books for grades 1 to 6. Each book contains 20 lessons to teach topics suitable for the grade level. The series provides many ideas for using manipulatives in learning mathematics.

Connections: Linking Manipulatives to Mathematics: Grade 5

Grade 5 ***Authorized Teaching***

Author(s): Brummett, M.R.; Charles, L.H.
Copyright / ISBN 1989 / 0884887723
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253451 **Est. Cost** $37.25

Connections is a series of six resource books for grades 1 to 6. Each book contains 20 lessons to teach topics suitable for the grade level. The series provides many ideas for using manipulatives in learning mathematics.

Connections: Linking Manipulatives to Mathematics: Grade 6

Grade 6 ***Authorized Teaching***

Author(s): Brummett, M.R.; Charles, L.H.
Copyright / ISBN 1989 / 0884887731
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253469 **Est. Cost** $37.25

Connections is a series of six resource books for grades 1 to 6. Each book contains 20 lessons to teach topics suitable for the grade level. The series provides many ideas for using manipulatives in learning mathematics.

Cooperative Learning in Mathematics: A Handbook for Teachers

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Davidson, N. (ed.)
Copyright / ISBN 1990 / 0201232995
Publisher Addison-Wesley
Distributor Addison-Wesley
Supplier LRDC
Order No. 254285 **Est. Cost** $41.95

Small-group cooperative learning provides an alternative to both traditional whole-class expository instruction and individual instruction systems. The procedures described in this volume are realistic, practical strategies for using small groups in mathematics teaching and learning. These methods can be applied with all ages of students, at all levels of the mathematics curriculum from elementary through graduate school, and for all major topic areas in mathematics. This resource is also authorized for Grades 7 to 12.

Curious George Goes Shopping (Apple II Version)

Grade 1 ***Support***

Copyright / ISBN 1989 / 0895057573
Publisher DLM Teaching Resources
Distributor DLM Teaching Resources
Supplier LRDC
Order No. 284357 **Est. Cost** $49.70

This program is based on an interactive story that enables children to practice classifying objects.

Curriculum and Evaluation Standards for School Mathematics

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Copyright / ISBN 1989 / 0873532732
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 129652 **Est. Cost** $36.35

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12. This resource is also authorized for Grades 7 to 12.

Curriculum and Evaluation Standards for School Mathematics: Kindergarten Book

Series: *Addenda Series, Grades K-6*

Grade Pre-1, 1 ***Authorized Teaching***

Author(s): Burton, Grace; et al.

Copyright / ISBN 1991 / 0873533100

Publisher National Council of Teachers of Mathematics

Distributor National Council of Teachers of Mathematics

Supplier LRDC

Order No. 282525 **Est. Cost** $13.85

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Curriculum and Evaluation Standards for School Mathematics: First Grade Book

Series: *Addenda Series, Grades K-6*

Grade 1 ***Authorized Teaching***

Author(s): Burton, G.; et al.

Copyright / ISBN 1991 / 0873533119

Publisher National Council of Teachers of Mathematics

Distributor National Council of Teachers of Mathematics

Supplier LRDC

Order No. 284654 **Est. Cost** $13.85

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Curriculum and Evaluation Standards for School Mathematics: Second Grade Book

Series: *Addenda Series, Grades K-6*

Grade 2 ***Authorized Teaching***

Author(s): Burton, G.; et al.

Copyright / ISBN 1992 / 0873533127

Publisher National Council of Teachers of Mathematics

Distributor National Council of Teachers of Mathematics

Supplier LRDC

Order No. 282533 **Est. Cost** $13.85

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Curriculum and Evaluation Standards for School Mathematics: Third Grade Book

Series: *Addenda Series, Grades K-6*

Grade 3 ***Authorized Teaching***

Author(s): Burton, G.; et al.

Copyright / ISBN 1992 / 0873533097

Publisher National Council of Teachers of Mathematics

Distributor National Council of Teachers of Mathematics

Supplier LRDC

Order No. 284646 **Est. Cost** $16.00

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Curriculum and Evaluation Standards for School Mathematics: Fourth Grade Book

Series: *Addenda Series, Grades K-6*

Grade 4 ***Authorized Teaching***

Author(s): Burton, G.; et al.

Copyright / ISBN 1992 / 0873533143
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 284638 **Est. Cost** $16.00

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Curriculum and Evaluation Standards for School Mathematics: Fifth Grade Book

Series: *Addenda Series, Grades K-6*

Grade 5 ***Authorized Teaching***

Author(s): Burton, G.; et al.

Copyright / ISBN 1992 / 0873533151
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 284620 **Est. Cost** $16.00

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Curriculum and Evaluation Standards for School Mathematics: Sixth Grade Book

Series: *Addenda Series, Grades K-6*

Grade 6 ***Authorized Teaching***

Author(s): Burton, G.; et al.

Copyright / ISBN 1992 / 087353316X
Publisher National Council of Teachers Of Mathematics
Distributor National Council of Teachers Of Mathematics
Supplier LRDC
Order No. 282541 **Est. Cost** $13.85

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Dealing with Data and Chance

Series: *Grades 5-8 Addenda Series*

Grades 5, 6 ***Authorized Teaching***

Author(s): Zawojewsi, J.S.; et al.

Copyright / ISBN 1991 / 0873533216
Publisher National Council Of Teachers Of Mathematics
Distributor National Council Of Teachers Of Mathematics
Supplier LRDC
Order No. 280082 **Est. Cost** $27.25

This resource provides a variety of data management activities organized under the headings: data gathering, communication, experiments, simulations, writing survey questions, cause and effect, and justifying different ways to display data. Sample lessons and blackline masters are included. This resource is also authorized for Grades 7 and 8.

Developing Number Concepts Using Unifix® Cubes

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Richardson, K.

Copyright / ISBN 1984 / 0201061171
Publisher Addison-Wesley
Distributor Addison-Wesley
Supplier LRDC
Order No. 253526 **Est. Cost** $29.85

This resource provides ideas for exploring and investigating mathematical concepts, from beginning counting to the introduction of multiplication and division through hands-on activities using Unifix® Cubes.

Developing Number Sense in the Middle Grades

Series: *Curriculum and Evaluation Standards for School Mathematics Addenda Series*

Grades 5, 6 ***Authorized Teaching***

Author(s): Reys, B.J.; et al.
Copyright / ISBN 1991 / 0873533224
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 131128 **Est. Cost** $15.30

This resource provides activities for students that develop number sense, including: meaning of numbers, relationship and magnitude of numbers, relative effect of operating on numbers, and referents for measuring. Communication is emphasized and evaluation ideas are provided. This resource is also authorized for Grades 7 and 8.

Disney's Countdown

Grade 1 ***Support***

Copyright 1988
Publisher Magic Lantern Communications Ltd.
Distributor Magic Lantern Communications Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371101 **Est. Cost** $17.00

An excellent introduction to number concept through integrating Disney stories with numbers 1 to 10.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Donald in MathMagicLand

Grades 4, 5, 6 ***Support***

Publisher Magic Lantern Communications Ltd.
Distributor Magic Lantern Communications Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371201 **Est. Cost** $17.00

This video introduces the theories that shape higher mathematics. As Donald Duck discovers the world of math - including the pentagram, the golden rectangle, ratio, fractions, infinity, Pi and the spiral - students will see how mathematical principles influence science, art, music, architecture and sports. A key focus is building connections with real world applications.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Doorbell Rang, The: A Big Book and Teaching Guide

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Dickie, A.
Copyright / ISBN 1988 / 0590651196 (Big Book and Teaching Guide)
Publisher Scholastic-TAB Publications
Distributor Scholastic-TAB Publications
Supplier LRDC
Order No. 280404 **Est. Cost** $26.60

This teaching guide presents, in story form, a variety of real-life problem solving situations involving division (equal sharing). It integrates language with math and has potential for active involvement of the students as they act out or dramatize the story.

Doorbell Rang, The (Student Book, Audiocassette)

Grades 1, 2, 3 ***Support***

Author(s): Hutchins, P.
Copyright / ISBN 1986 / 0590411098 (Student Book)
Publisher Scholastic-TAB Publications
Distributor Scholastic-TAB Publications
Supplier LRDC
Order No. 280389 (Book) **Est. Cost** $4.90
280397 (Audiocassette) $10.75

This resource presents, in story form, a variety of real-life problem solving situations involving division (equal sharing). It integrates language with math and has potential for active involvement of the students as they act out or dramatize the story. It includes a student book and audiocassette.

Early Explorations in Mathematics & Science

Grade 1 ***Basic Teaching***

Author(s): Harcourt, L.; Wortzman, R.
Copyright / ISBN 1992 / 020156050X (Package)
Publisher Addison-Wesley
Distributor Addison-Wesley
Supplier LRDC
Order No. 129686 **Est. Cost** $109.55

This resource provides ideas to involve children in activities and discussions that maintatin a high level of interest, develop positive attitudes and encourage problem solving and creative thinking. It integrates mathematics, science and language. It provides evaluation strategies and classroom management suggestions.

Easy Street (Apple II Version)

Grade Pre-1, 1, 2 ***Support***

Copyright 1990
Publisher Mindplay
Distributor Mindplay
Supplier LRDC
Order No. 284183 **Est. Cost** $50.00

In this game, students travel on Easy Street deciding which way to travel and which stores will likely sell items on their shopping list. This adventure game introduces students to classification, labelling, letter matching, picture matching, number matching (numbers 1-5), shape matching, discrimination skills, visual memory skills, problem solving, picture/word matching, counting skills and money.

Elementary Math Inservice: More Than Just the Right Answer; Problem Solving; Manipulatives; Estimation; Data Management

Series: *Elementary Math Inservice*

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Copyright / ISBN 1993 / 1895350301 (Viewer's Guide)
Publisher ACCESS NETWORK
Distributor ACCESS NETWORK
Supplier ACCESS NETWORK
Order No. BPN 339800 **Est. Cost** $35.25

This five-part video series, with accompanying print document, supports the Alberta elementary mathematics curriculum and includes the following programs:

- Program One: More Than Just the Right Answer. Motivational interest is generated by seeing students actively involved in the process of learning mathematics.
- Program Two: Problem Solving. The process of problem solving is exemplified as mathematical concepts are introduced and applied in a problem solving setting.
- Program Three: Manipulatives. Concrete objects are used to develop and demonstrate understanding of mathematical concepts as students solve problems. Connections among the concrete, pictorial and symbolic modes are emphasized.
- Program Four: Estimation. Students are involved in solving estimation problems relating to number, computation and measurement, with emphasis on the latter two.
- Program Five: Data Management. Students solve problems by collecting, displaying and interpreting data. A probability experiment is used to solve one of the problems.

Evaluation is discussed in each of the programs. The focus of evaluation is on performance assessment (emphasis is placed on analysing the thinking a student does in completing a task).

In each of the videos, suggestions are made for observing, interviewing and analysing written work. The "Data Management" video deals with oral presentations and portfolios, and student self-assessment is encouraged.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Feb. 20, 1997

Factory, The: Strategies in Problem Solving (Apple II Version)

Grades 3, 4, 5, 6 ***Support***

Author(s): Cappo, M.; Fish, M.
Copyright / ISBN 1992 / 0780523873
Publisher Sunburst / *Wings for Learning*
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283383 **Est. Cost** $118.10

This program is designed to teach problem solving strategies, including working backwards, analyzing a process, determining sequence and applying creativity. Students can choose to test a machine, build a factory or make a product.

First Steps to Mathematics: A Guide for Parents and Teachers to Beginning Mathematics Activities

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Rachlin, S.L.; et al.
Copyright / ISBN 1984 / 0969060513
Publisher Braun & Braun Educational Enterprises
Distributor Peguis Publishers
Supplier LRDC
Order No. 280230 **Est. Cost** $10.75

This resource provides hands-on problem solving activities for primary students in numeration, operations and properties, measurement, geometry and data management. Activities are based on the natural everyday experiences of the child. An annotated bibliography and tips to facilitate communication between teacher and parents are included.

For Good Measure

Series: *Mathsphere*

Grades 5, 6 ***Support***

Copyright 1991
Publisher Britannica
Distributor Marlin Motion Pictures Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371301 **Est. Cost** $17.00

This program teaches students how to take accurate measurements and how to collect appropriate data.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Fraction Fairy Tales with the Boars! (Apple II Version)

Grades 1, 2, 3 ***Support***

Copyright 1987
Publisher Pelican Software
Distributor Queue, Inc.
Supplier LRDC
Order No. 282690 **Est. Cost** $43.55

This program teaches children how to identify halves, thirds and quarters in fairy tale settings. It includes 16 fraction fairy tale screens and two levels.

Fun and Games

Series: *Mathematical Eye IV*

Grades 5, 6, 7, 8 ***Support***

Copyright 1992
Publisher Yorkshire Television Enterprises
Distributor Marlin Motion Pictures Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371403 **Est. Cost** $17.00

This program shows a number of math games that can be used as starting points for a range of open-ended investigations.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Geoboard Portfolio, The: Grades 4-6

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 4, 5, 6 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165644
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

Geometry and Spatial Sense

Series: *Grades K-6 Addenda Series*

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Del Grande, J.; Morrow, L.
Copyright / ISBN 1993 / 0873533178
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 280090 **Est. Cost** $17.30

This resource, organized by grade level, provides activities for students to develop understanding of three-dimensional objects, two-dimensional figures and motion geometry. The manipulatives include three-dimensional objects, nets, geoboards and the mira. Suggestions for integrating the computer by using LOGO are provided. Sample lessons and blackline masters are included.

Geometry in the Middle Grades

Series: *Grades 5-8 Addenda Series*

Grades 5, 6 ***Authorized Teaching***

Author(s): Geddes, D.; et al.
Copyright / ISBN 1992 / 0873533232
Publisher National Council Of Teachers Of Mathematics
Distributor National Council Of Teachers Of Mathematics
Supplier LRDC
Order No. 284662 **Est. Cost** $21.80

This resource provides activities for students to develop spatial sense by using physical models to discover, visualize and represent concepts and properties of geometric figures in the physical world. The activities focus on two- and three-dimensional geometry concepts, relationships among properties of shapes including angle sums, transformation geometry and enrichment topics. Sample lessons and accompanying blackline masters are included. This resource is also authorized for Grades 7 and 8.

Graphs

Series: *Math Cycle*

Grades 1, 2, 3 ***Support***

Publisher Great Plains National Instructional Television
Distributor Library / Canadian Learning Co.
Supplier LRDC
Order No. BPN pending

A video outlining and showing examples of graphing for primary students.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Holt Mathematics System: Problem Solving Masters 1

Series: *Holt Mathematics System*

Grade 1 ***Authorized Teaching***

Author(s): Phillips, E.
Copyright / ISBN 1984 / 0039217086
Publisher Holt
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 129850 **Est. Cost** $72.20

Skill Teaching Masters introduce specific problem solving skills in preparation for carrying out the problem solving process. The Strategy Teaching Masters focus on teaching specific problem solving strategies and emphasize the use of the four steps of the Polya Model. The Skill Bank Masters are designed to provide additional practice with individual skills as well as integration of the skills introduced in the Teaching Masters. The Strategy Bank Masters provide additional practice in using the problem solving strategies and the four-step Polya Model. Each master is accompanied by a lesson plan.

Holt Mathematics System: Problem Solving Masters 2

Series: *Holt Mathematics System*

Grade 2 ***Authorized Teaching***

Author(s): Phillips, E.
Copyright / ISBN 1984 / 0039217094
Publisher Holt
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 130196 **Est. Cost** $72.20

Skill teaching Masters introduce specific problem solving skills in preparation for carrying out the problem solving process. The Strategy Teaching Masters focus on teaching specific problem solving strategies and emphasize the use of the four steps of the Polya Model. The Skill Bank Masters are designed to provide additional practice with individual skills as well as integration of the skills introduced in the Teaching Masters. The Strategy Bank Masters provide additional practice in using the problem solving strategies and the four-step Polya Model. Each master is accompanied by a lesson plan.

Holt Mathematics System: Problem Solving Masters 3

Series: *Holt Mathematics System*

Grade 3 ***Authorized Teaching***

Author(s): Phillips, E.; Tomlinson, M.
Copyright / ISBN 1984 / 0039217108
Publisher Holt
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 130451 **Est. Cost** $72.20

Skill teaching Masters introduce specific problem solving skills in preparation for carrying out the problem solving process. The Strategy Teaching Masters focus on teaching specific problem solving strategies and emphasize the use of the four steps of the Polya Model. The Skill Bank Masters are designed to provide additional practice with individual skills as well as integration of the skills introduced in the Teaching Masters. The Strategy Bank Masters provide additional practice in using the problem solving strategies and the four-step Polya Model. Each master is accompanied by a lesson plan.

Holt Mathematics System: Problem Solving Masters 4

Series: *Holt Mathematics System*

Grade 4 ***Authorized Teaching***

Author(s): Bye, M.P.; Sauer, R.S.
Copyright / ISBN 1985 / 0039217124
Publisher Holt
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 130683 **Est. Cost** $72.20

Skill teaching Masters introduce specific problem solving skills in preparation for carrying out the problem solving process. The Strategy Teaching Masters focus on teaching specific problem solving strategies and emphasize the use of the four steps of the Polya Model. The Skill Bank Masters are designed to provide additional practice with individual skills as well as integration of the skills introduced in the Teaching Masters. The Strategy Bank Masters provide additional practice in using the problem solving strategies and the four-step Polya Model. Each master is accompanied by a lesson plan.

Holt Mathematics System: Problem Solving Masters 5

Series: *Holt Mathematics System*

Grade 5 ***Authorized Teaching***

Author(s): Proctor, W.G.
Copyright / ISBN 1985 / 0039217132
Publisher Holt
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 130956 **Est. Cost** $72.20

Skill teaching Masters introduce specific problem solving skills in preparation for carrying out the problem solving process. The Strategy Teaching Masters focus on teaching specific problem solving strategies and emphasize the use of the four steps of the Polya Model. The Skill Bank Masters are designed to provide additional practice with individual skills as well as integration of the skills introduced in the Teaching Masters. The Strategy Bank Masters provide additional practice in using the problem solving strategies and the four-step Polya Model. Each master is accompanied by a lesson plan.

Holt Mathematics System: Problem Solving Masters 6

Series: *Holt Mathematics System*

Grade 6 ***Authorized Teaching***

Author(s): Densmore, A.S.
Copyright / ISBN 1985 / 0039217140
Publisher Holt
Distributor Harcourt Brace & Co., Canada
Supplier LRDC
Order No. 131201 **Est. Cost** $72.20

Skill teaching Masters introduce specific problem solving skills in preparation for carrying out the problem solving process. The Strategy Teaching Masters focus on teaching specific problem solving strategies and emphasize the use of the four steps of the Polya Model. The Skill Bank Masters are designed to provide additional practice with individual skills as well as integration of the skills introduced in the Teaching Masters. The Strategy Bank Masters provide additional practice in using the problem solving strategies and the four-step Polya Model. Each master is accompanied by a lesson plan.

How Big is the Moon? Whole Maths in Action

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Baker, D.; Semple, C.; Stead, T.
Copyright / ISBN 1990 / 0435083120
Publisher Heinemann Educational
Distributor Irvin Publishing
Supplier LRDC
Order No. 235699 **Est. Cost** $24.05

This resource introduces primary teachers to the integration of math into a broader curriculum through exploration of facts, skills and concepts in relevant and meaningful contexts. It includes some innovative and interesting evaluation techniques.

Iggy's Gnees (Apple II Version)

Grades 1, 2, 3 ***Support***

Author(s): Stanger, D.
Copyright / ISBN 1990 / 1556361432
Publisher Sunburst Communications
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283375 **Est. Cost** $118.10

This resource provides practice in examining examples and non-examples to discover a rule relating to geometric figures. That rule is used to create another example from a group of colored shapes. Three levels of difficulty are offered. A color monitor is required.

In All Probability: Investigations in Probability and Statistics: Grades 3-6: Teacher's Guide

Grades 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Cuomo, C.
Copyright / ISBN 1993 / 0912511834
Publisher Lawrence Hall Of Science-U of C, Berkeley
Distributor Addison-Wesley
Supplier LRDC
Order No. 280214 **Est. Cost** $18.10

This is a collection of math activities on probability and statistics that actively involves students in investigations related to real-life experiences.

Infinity

Series: *Video Maths*

Grades 4, 5, 6 ***Support***

Publisher T.H.A Media Distributors Ltd.
Distributor T.H.A Media Distributors Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371001 **Est. Cost** $17.00

This video uses TV techniques to make mathematics come alive. In this introduction to infinity, the mathematical focus is on communicating orally, pictorally and in writing.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Interlocking Cube Portfolio, The: Grades 4-6

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 4, 5, 6 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165687
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

King's Rule, The (Apple II Version)

Grades 4, 5, 6 ***Support***

Author(s): O'Brien, T.C.
Publisher Sunburst Communications
Distributor Sunburst / *Wings for Learning*
Supplier Publisher / Distributor
Est. Cost $65.00

This program, written in a fantasy game format, allows a student to advance through a castle by successfully generating and testing hypotheses at six levels of difficulty. At each level, students are shown three numbers that correspond to a secret mathematical rule. Students must generate a hypothesis about the rule and test it. This resource is also authorized for Grades 7 to 9.

Living and Learning Mathematics: Stories and Strategies for Supporting Mathematical Literacy

Grade Pre-1, 1, 2, 3 ***Authorized Teaching***

Author(s): Whitin, D.J.; Mills, H.; O'Keefe, T.
Copyright / ISBN 1990 / 0435083031
Publisher Heinemann
Distributor Irwin Publishing
Supplier LRDC
Order No. 235582 **Est. Cost** $29.65

This resource views curriculum as a mode of inquiry for both teachers and children. Children are invited to do original research using mathematics as a tool for learning. Mathematical literacy is emphasized. Themes and children's literature are suggested as the context within which to explore mathematics. Emphasis is placed on responding to children's interests and valuing their strategies. The ideas are appropriate for use with primary students.

Making Sense of Data

Series: *Grades K-6 Addenda Series*

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Lindquist, M.M.; et al.
Copyright / ISBN 1992 / 0873533186
Publisher National Council Of Teachers Of Mathematics
Distributor National Council Of Teachers Of Mathematics
Supplier LRDC
Order No. 284688 **Est. Cost** $13.85

This resource, organized by grade level, provides hands-on activities for students to collect and record, organize and display, and interpret data in problem solving situations. Probability activities are integrated. Sample lessons and accompanying blackline masters are included.

Math by all Means: Multiplication: Grade 3

Grades 2, 3, 4 ***Authorized Teaching***

Author(s): Burns, M.
Copyright / ISBN 1991 / 0201871955
Publisher Math Solutions Publications
Distributor Addison-Wesley Publishers
Supplier LRDC
Order No. 280222 **Est. Cost** $27.15

This teacher resource book offers problem solving experiences to develop an understanding of multiplication. It offers a real world context that integrates multiplication into geometry, statistics and other areas of mathematics, and includes samples of children's work, assessment and cooperative learning activities.

Math Gems: Sparkling Activities for Early Childhood Classrooms

Grades 1, 2 ***Authorized Teaching***

Author(s): Greenes, C.; et al.
Copyright 1989
Publisher DLM Teaching Resources
Distributor Gage Educational Publishing
Supplier LRDC
Order No. 252990 **Est. Cost** $40.40

This resource book is filled with 140 concrete, fun-to-do activities, games, stories, dramatizations and explorations that present math so that children understand its relevance to everyday life. The content covers readiness, counting, numeration, operations, measurement and geometry, applications and reasoning.

Math Talk

Grade Pre-1, 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): The Mathematical Association (U.K.)
Copyright / ISBN 1987 / 0435083074
Publisher Heineman Educational
Distributor Irwin Publishing
Supplier LRDC
Order No. 235508 **Est. Cost** $20.00

This resource shows how the skills of spoken language can be used to develop mathematical thinking. The teacher's role in language-based mathematics is discussed and suggestions for evaluating the quality of discussion are provided.

Math through Children's Literature: Making the NCTM Standards Come Alive

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Braddon, K.L.; Hall, N.J.; Taylor, D.
Copyright / ISBN 1993 / 0872879321
Publisher Teacher Ideas Press
Distributor Maxwell Macmillan Canada
Supplier LRDC
Order No. 280206 **Est. Cost** $34.15

This teacher resource encourages integration of language learning and mathematics through problem solving. It utilizes the NCTM standards as a base for the math activities and references quality children's literature (K-6).

Mathematics: Assessing Understanding: Individual Assessments: Parts 1-3

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Burns, M.
Copyright / ISBN 1993 / 020187203X
Publisher Cuisenaire
Distributor Addison-Wesley
Supplier LRDC
Order No. 268179 **Est. Cost** $266.80

This three-part video series with accompanying print document illustrates the use of probing questions in individual interviews to determine the level of students' understanding of math concepts. Video I focuses on place value for primary students; Video II focuses on estimating quantity, adding, multiplying and dividing for Grades 4 to 6 students; and Video III focuses on equivalent fractions and ordering fractions for Grades 4 to 6 students.

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Stenmark, J.K. [ed.]
Copyright / ISBN 1991 / 0873533399
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 254946 **Est. Cost** $12.40

This collection of examples of assessment techniques focuses on student thinking. Suggested techniques include performance assessment, observations, interviews and portfolios. Student self-assessment is also included. Assessment is linked with instruction. This resource is also authorized for Grades 7 to 12.

Mathematics for the Young Child

Grades 1, 2, 3, 4 ***Authorized Teaching***

Author(s): Payne, J.N. [ed.]
Copyright / ISBN 1990 / 0873532880
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 129678 **Est. Cost** $57.40

This book will help teachers develop effective teaching strategies for use with preschool children through Grade 4. Relevant research in each chapter provides a dependable justification for the suggested instructional strategies. Topics from each of the strands are included. The focus is on integrating problem solving, manipulatives, estimation and technology as described in the NCTM Curriculum and Evaluation Standards.

Mathematics in Process

Grade Pre-1, 1, 2, 3 ***Authorized Teaching***

Author(s): Baker, J.; Baker, A.
Copyright / ISBN 1990 / 0435083066
Publisher Heinemann
Distributor Irwin Publishing
Supplier LRDC
Order No. 235607 **Est. Cost** $27.30

This resource integrates language learning and mathematics for primary students. The emphasis is on communicating, problem solving and making connections. Part One focuses on the child's experiences in math. Part Two focuses on creating suitable conditions for learning and integrating assessment. Part Three focuses on the classroom environment and various sources of activities. This resource provides ideas for helping children find purpose and meaning in what they learn and to gain the confidence they need to communicate effectively as they solve real-life problems.

Mathematics in the Primary School

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Skemp, R.R.
Copyright / ISBN 1989 / 0415025192
Publisher Routledge
Distributor Ecumar Effectiveness Consultants
Supplier LRDC
Order No. 265753 **Est. Cost** $27.40

This book emphasizes learning with enjoyment and provides examples of stimulating activities for the classroom. Skemp shows how effective mathematics teaching involves understanding. This reference material, which accompanies the set of videos that support the *SAIL Through Mathematics* series, provides an understanding of the principles behind the processes of learning in the SAIL program.

Mathematics: Teaching for Understanding: Grades K-6, Parts 1-3

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Copyright / ISBN 1992 / 0201871963
Publisher Cuisenaire
Distributor Addison-Wesley
Supplier LRDC
Order No. 268161 **Est. Cost** $266.80

This three-part video series with accompanying print document involves students in problem situations. Students connect manipulatives, diagrams, and spoken and written symbols as they develop understanding of math concepts. Assessment is integrated. Video I focuses on whole class lessons. Video II focuses on menus that provide students with a choice of activities. Video III focuses on communication.

Mathematics through Art & Design: 6-13

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Woodman, A; Albany, E.
Copyright / ISBN 1988 / 0003125726
Publisher Unwin Hyman
Distributor Irwin Publishing
Supplier LRDC
Order No. 280024 **Est. Cost** $55.75

This resource provides a variety of hands-on activities that integrate art with geometry. Both three-dimensional objects and two-dimensional figures are used in the art activities. The activities can be used with students of different ages or abilities.

Maths in Context: A Thematic Approach

Grade Pre-1, 1, 2, 3 ***Authorized Teaching***

Author(s): Edwards, D.
Copyright / ISBN 1990 / 0435083082
Publisher Heinemann
Distributor Irwin Publishing
Supplier LRDC
Order No. 235590 **Est. Cost** $27.90

This resource provides primary teachers with guidelines for implementing a thematic approach. The emphasis is on fostering creative and divergent thinking rather than only finding the right answer. A variety of theme ideas is provided as well as suggestions for assessment.

Mathtime 1

Grade 1 ***Authorized Teaching***

Author(s): Fullerton, O.
Copyright / ISBN 1985 / 0773015302
Publisher Copp Clark Pitman
Distributor Copp Clark Longman
Supplier LRDC
Order No. 235475 **Est. Cost** $102.10

This activity-based resource provides many ideas for teaching through problem solving. Manipulatives are used extensively and students are encouraged to communicate in a variety of ways. Blackline masters, included in each binder, focus on pictorial and symbolic representations.

Mathtime 2

Grade 2 ***Authorized Teaching***

Author(s): Fullerton, O.
Copyright / ISBN 1987 / 0773015310
Publisher Copp Clark Pitman
Distributor Copp Clark Longman
Supplier LRDC
Order No. 235467 **Est. Cost** $102.10

This activity-based resource provides many ideas for teaching through problem solving. Manipulatives are used extensively and students are encouraged to communicate in a variety of ways. Blackline masters, included in each binder, focus on pictorial and symbolic representations.

Mental Math in the Middle Grades: Blackline Masters

Grades 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Hope, J.A.; Reys, B.J.; Reys, R.E.
Copyright / ISBN 1987 / 0866513124
Publisher Dale Seymour Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253518 **Est. Cost** $14.40

This resource consists of four units of 9 lessons each. Each lesson contains a lesson page to introduce each new mental math strategy, a power builder page with two sets of practice problems, and a review page. There is a progress test, with suggestions for administration, at the end of each unit. Two forms of a cumulative test are also provided.

Mental Math in the Primary Grades

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Hope, J.A.; et al.
Copyright / ISBN 1988 / 0866514341
Publisher Dale Seymour Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253485 **Est. Cost** $14.40

This resource consists of four units of 9 lessons each. Each unit begins with the objectives and rationale for the lessons that follow, as well as ideas for a bulletin board display. Each lesson contains teaching notes and teaching transparencies. There is a short progress test, designed to be given orally, at the end of each unit.

Muppet Math: An Introduction to Math All Around Us (Apple II Version)

Grades 1, 2 ***Support***

Author(s): Stanger, D.; Hermann, M.A.; Cerf, C.
Copyright / ISBN 1990 / 0780501128
Publisher Sunburst Communications
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283424 **Est. Cost** $118.10

Muppet Math offers students the opportunity to practice geometry, basic addition and subtraction, and simple graphing (one to one correspondence).

Number Patterns 3: Fibonacci and Others

Series: *Mathematical Eye Series III*

Grades 4, 5, 6 ***Support***

Copyright 1991
Publisher Yorkshire Television Enterprises
Distributor Marlin Motion Pictures Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371402 **Est. Cost** $17.00

The video provides the opportunity for students to see the application of number patterns in the real world. Students explore the Fibonacci sequence, the Lucas sequence and Pascal's triangles.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Number Sense and Operations

Series: *Grades K-6 Addenda Series*

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Author(s): Burton, G.M.; et al.
Copyright / ISBN 1993 / 0873533194
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 280181 **Est. Cost** $17.30

This resource, which is organized by grade level, provides problem solving, hands-on activities that will help students explore the relationships between numbers, different representations of numbers, the effects of operations and the use of numbers in real-life counting and measuring situations. Sample lesson plans and accompanying blackline masters are included. These materials integrate subject areas.

NumberMaze (Macintosh Version)

Grades 1, 2, 3, 4, 5, 6 ***Support***

Copyright 1992
Publisher Great Wave Software
Distributor Image Media Services
Supplier LRDC
Order No. 283565 **Est. Cost** $80.30

Students move through a maze answering numerical and word problems that involve counting, adding, subtracting, multiplying or dividing whole numbers. Up to 48 levels are available and a variety of presentation modes, graphics and randomly generated problems provide unlimited practice. Each child's progress may be monitored.

Overhead Math: Manipulative Lessons on the Overhead Projector: Gr. 1-3

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Hoogeboom, S. ; Goodnow, J.
Copyright / ISBN 1990 / 0884889394
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 253534 **Est. Cost** $23.60

This coil-bound resource book includes math explorations with eight different manipulatives for Grades 1 to 3 (for use with overhead projectors). It contains 40 lessons that can be integrated into any existing math curriculum. At the beginning of each section (organized by the type of manipulative) there is a summary of the math concepts and understandings that students can explore and develop with the manipulative.

Paper Engineering

Series: *Mathematical Eye Series IV*

Grades 5, 6 ***Support***

Copyright 1992
Publisher Yorkshire Television Enterprises
Distributor Marlin Motion Pictures Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371401 **Est. Cost** $17.00

Students investigate ways to make a box for a special birthday cake. The program shows how square and circular paper can be folded to make a variety of shapes. The five platonic solids - tetrahedron, cube, octohedron, dodecohedron and icosahedron are also illustrated.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Pattern Block Portfolio, The: Grades 4-6

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 4, 5, 6 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165709
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

Patterns and Functions

Series: *Grades 5-8 Addenda Series*

Grades 5, 6 ***Authorized Teaching***

Author(s): Phillips, E.; et al.
Copyright / ISBN 1991 / 0873533240
Publisher National Council Of Teachers Of Mathematics
Distributor National Council Of Teachers Of Mathematics
Supplier LRDC
Order No. 284670 **Est. Cost** $18.90

This resource provides a variety of problem solving activities with suggestions for using manipulatives to promote student understanding of patterns. The activities focus on exponents, number theory (primes, Pascal's Triangle, probability), fractions, decimals, perimeter, area, volume and graphing. Many charts and diagrams are included as well as suggestions for evaluation and sample lessons. This resource is also authorized for Grades 7 and 8.

Pond, The: Strategies in Problem Solving (Apple II Version)

Grades 2, 3, 4, 5, 6 ***Support***

Author(s): Cappo, M.; Fish, M.
Copyright / ISBN 1990 / 1556363672
Publisher Sunburst / *Wings for Learning*
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283416 **Est. Cost** $118.10

This game is designed to help students identify and create patterns.

Primary Base Ten Portfolio, The: Grades 1-4

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 1, 2, 3, 4 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165660
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

Primary Geoboard Portfolio, The: Grades 1-3

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165741
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

Primary Interlocking Cube Portfolio, The: Grades 1-3

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165784
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

Primary Pattern Block Portfolio, The: Grades 1-3

Series: *Spectrum Manipulative Mathematics Series, The*

Grades 1, 2, 3 ***Authorized Teaching***

Author(s): Lashmar, P.; Lessard, P.
Copyright / ISBN 1994 / 1895165768
Publisher Tree House Press Inc.
Distributor Spectrum Educational Supplies
Supplier LRDC
Order No. TBA **Est. Cost** TBA

This set of mathematics portfolios assists teachers in using small group and classroom activities that encourage hands-on learning using mathematics manipulatives. It incorporates student journals, student portfolios, student conferences and student-initiated cooperative learning activities. Each portfolio contains a teacher guide, laminated activities sheets and reproducible assessment organisers for use by teachers and students for self-examination.

Problem Solver 1, The: Activities for Learning Problem-Solving Strategies

Grade 1 ***Authorized Teaching***

Author(s): Hoogeboom, S.; Goodnow, J.
Copyright / ISBN 1987 / 088488581X
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 236308 **Est. Cost** $42.60

This resource suggests questioning strategies that will help students understand the problem solving process and develop a wide variety of problem solving strategies. The problems are interesting and developmentally appropriate.

Problem Solver 2, The: Activities for Learning Problem-Solving Strategies

Grade 2 ***Authorized Teaching***

Author(s): Hoogeboom, S.; Goodnow, J.
Copyright / ISBN 1987 / 0884885828
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 236324 **Est. Cost** $42.60

This resource suggests questioning strategies that will help students understand the problem solving process and develop a wide variety of problem solving strategies. The problems are interesting and developmentally appropriate.

Problem Solver 3, The: Activities for Learning Problem-Solving Strategies

Grade 3 ***Authorized Teaching***

Author(s): Hoogeboom, S.; Goodnow, J.
Copyright / ISBN 1987 / 020153715X
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 236332 **Est. Cost** $42.60

This resource suggests questioning strategies that will help students understand the problem solving process and develop a wide variety of problem solving strategies. The problems are interesting and developmentally appropriate.

Problem Solver 4, The: Activities for Learning Problem-Solving Strategies

Grade 4 ***Authorized Teaching***

Author(s): Hoogeboom, S.; Goodnow, J.
Copyright / ISBN 1987 / 0884885844
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 236340 **Est. Cost** $42.60

This resource suggests questioning strategies that will help students understand the problem solving process and develop a wide variety of problem solving strategies. The problems are interesting and developmentally appropriate.

Problem Solver 5, The: Activities for Learning Problem-Solving Strategies

Grade 5 ***Authorized Teaching***

Author(s): Moretti, G.; et al.
Copyright / ISBN 1987 / 0884885852
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 236382 **Est. Cost** $42.60

This resource suggests questioning strategies that will help students understand the problem solving process and develop a wide variety of problem solving strategies. The problems are interesting and developmentally appropriate.

Problem Solver 6, The: Activities for Learning Problem-Solving Strategies

Grade 6 ***Authorized Teaching***

Author(s): Moretti, G.; et al.
Copyright / ISBN 1987 / 0884885860
Publisher Creative Publications
Distributor Addison-Wesley
Supplier LRDC
Order No. 236390 **Est. Cost** $42.60

This resource suggests questioning strategies that will help students understand the problem solving process and develop a wide variety of problem solving strategies. The problems are interesting and developmentally appropriate.

Professional Standards for Teaching Mathematics

Grades 1, 2, 3, 4, 5, 6 ***Authorized Teaching***

Copyright / ISBN 1991 / 0873533070
Publisher National Council of Teachers of Mathematics
Distributor National Council of Teachers of Mathematics
Supplier LRDC
Order No. 129660 **Est. Cost** $36.35

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards. It also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers. This resource is also authorized for Grades 7 to 12.

Puzzle Tanks (Macintosh Version)

Grades 3, 4, 5, 6 ***Support***

Author(s): O'Brien, T.C.
Copyright / ISBN 1992 / 0780523741
Publisher Sunburst / *Wings for Learning*
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283408 **Est. Cost** $143.55

Students practice the skills of addition, subtraction, multiplication and division by filling and emptying tanks, and moving liquids.

Size

Series: *Video Maths*

Grades 3, 4, 5, 6 ***Support***

Publisher T.H.A Media Distributors Ltd.
Distributor T.H.A Media Distributors Ltd.
Supplier ACCESS NETWORK
Order No. BPN 371002 **Est. Cost** $17.00

This video uses TV techniques to make mathematics come alive as an enjoyable activity, with stories, cartoons, animation, graphics, songs, playground games and illustrations of math in the environment. In this introduction to size, using mostly non-standard units, the focus is on applying knowledge in new situations.

Please note: The cost includes duplicating charges only. Handling charges and GST are extra.

Expiry date: Pending

Taking Chances (Apple II Version)

Grades 3, 4, 5, 6 ***Support***

Author(s): Marshall, G.
Copyright / ISBN 1990 / 0780500245
Publisher Sunburst Communications
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283391 **Est. Cost** $118.10

Students develop intuitive ideas about the laws of probability, test theories, and record and analyze data to predict events. Students learn how sampling with replacements produces different results than sampling without replacements. Students collaborate with others and use manipulatives to measure their understanding of probability.

Winker's World of Patterns (Apple II Version)

Grade Pre-1, 1, 2, 3, 4, 5, 6 ***Support***

Author(s): O'Brien, T.C.
Copyright / ISBN 1990 / 1558261621
Publisher Sunburst / *Wings for Learning*
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283359 **Est. Cost** $118.10

This program uses a puzzle grid to challenge students to use their deductive skills. Players follow Winker the Worm through patterns composed of colours, numbers and words as they learn to recognize patterns and determine missing elements.

Zeroing In (Apple II Version)

Grades 3, 4, 5, 6 ***Support***

Author(s): Schneir, N., Annunziata, E.
Copyright / ISBN 1990 / 0780500073
Publisher Sunburst / *Wings for Learning*
Distributor Sunburst / *Wings for Learning*
Supplier LRDC
Order No. 283367 **Est. Cost** $118.10

This challenging game for one or two players is played on a three-by-three grid, with each cell of the grid containing a number chosen by the program. The objective for each player is to combine a number on the playing grid with one of their playing numbers using addition or subtraction to get an answer of zero. Uses + and - integers. The level of the computer opponent is adjustable.

10-Sided Dice

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234641 **Est. Cost** $4.45
Set of 6, numbered 1-10.

24-Hour Clock Stamp

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234609 **Est. Cost** $5.50

3D Geometric Stamp

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234667 **Est. Cost** $31.75
Includes: 16 rubber stamps for: cylinder, cone, cube, sphere, rectangular prism (no square faces), square prism, triangular prism, pentagonal prism, hexagonal prism, octagonal prism, triangular pyramid, square pyramid, rectangular pyramid, pentagonal pyramid, hexagonal pyramid, octagonal pyramid.

8-Sided Dice

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234568 **Est. Cost** $4.50
Set of 6, numbered 1-8.

Abacus 10 Place

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161886 **Est. Cost** $36.75
Ten rod-type columns, wooden base frame and 10 sets of 10 coloured beads.

Abacus 4 Place

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161878 **Est. Cost** $24.30
Four rod-type columns, wooden base frame and 4 sets of 10 coloured beads.

Attribute Blocks

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234758 **Est. Cost** $21.15
Sixty-piece plastic set of 5 shapes, 2 thicknesses, 3 colours and 2 sizes.

Balance Scale

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161943 **Est. Cost** $19.30
Primary junior balance with removable 1 litre buckets and easy zero adjustments.

Base 10 Blocks

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161927 **Est. Cost** $143.15
Ten centimetre cubes, 80 flats of 100 units, 400 rods of 10 units and centrimetre cubes of 1000 units.

Base 10 Overhead Blocks

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234592 **Est. Cost** $18.05
Includes teacher's guide.

Base 10 Stamp

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234625 **Est. Cost** $7.95
Set of 4.

Basic Overhead Calculator

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234766 **Est. Cost** $47.95

Beaker Set

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161969 **Est. Cost** $21.10
Set of 10 plastic beakers ranging from 10 millilitres to 2 litres.

Calculator (Class Set)

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234576 **Est. Cost** $281.65
Includes 30 calculators with storage case.

Canadian Coin Stamps

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234683 **Est. Cost** $11.15
Includes rubber stamps for: penny, nickel, dime, quarter and loonie.

Centicubes

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161919 **Est. Cost** $24.70
Interlocking 1 cm / 1 gram cubes consisting of 1000 cubes in sets of 10 colours.

Cube-a-Link Cubes

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161894 **Est. Cost** $34.35
Box of 500 cubes, 50 in each of 10 colours.

Decimal Squares for Overhead

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234782 **Est. Cost** $18.60
Set of 57 transparent decimal squares in tenths, hundredths and thousandths, includes blanks of 3 colours.

Decimal Squares Playing Cards

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234617 **Est. Cost** $9.35
Set of 57.

Demonstration Gear/Logic Clock

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234584 **Est. Cost** $15.60

Demonstration Thermometer

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234550 **Est. Cost** $11.55
Large plastic waterproof thermometer showing Celsius degrees.

Fraction Bars Playing Cards

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234659 **Est. Cost** $9.05
Set of 64 cards in 5 colours and Guide.

Geoboard (Overhead 11x11 Pin Matrix)

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234740 **Est. Cost** $5.95

Geoboard (Overhead 5x5 Pin Matrix)

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234708 **Est. Cost** $3.70
One overhead 5x5 geoboard with geobands.

Geoboards (Overhead 11x11 Pin Matrix Set)

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234732 **Est. Cost** $82.70
Set of 16 overhead geoboards with geobands and storage container.

Geoboards (Overhead 5x5 Pin Matrix Set)

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234691 **Est. Cost** $37.95
Set of overhead geoboards with geobands, teacher's guide and storage container.

Geometric Solids

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161977 **Est. Cost** $14.95
Consists of 16 solid wood geometric shapes: hexagonal prism, octagonal prism, pentagonal prism, 2 rectangular prisms, (no square faces and cuboid), triangular prism, cube, sphere, cone, cylinder, hexagonal pyramid, octagonal pyramid, pentagonal pyramid, rectangular pyramid, square pyramid, triangular pyramid.

Mass Set

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161951 **Est. Cost** $40.00
Consists of a set of 9 steel and brass weights ranging from 10 grams to 1 kilogram.

Math Manipulatives, Package 1

Pre-Grade 1 to Grade 6

Copyright 1993
Supplier LRDC
Order No. 235681 **Est. Cost** $65.30
Includes: Base 10 overhead blocks and teacher's guide; base 10 stamp (set of 4); decimal squares for overhead (set of 57); fraction bars playing cards (set of 64 cards in 5 colours and guide); pattern blocks for overhead (set of 49 transparent pieces); overhead spinners (set of 5).

Math Manipulatives, Package 2

Pre-Grade 1 to Grade 6

Copyright 1993
Supplier LRDC
Order No. 235657 **Est. Cost** $19.30
Includes: overhead spinners (set of 5); standard dice with numbers (3 pairs of 6-sided dice); standard blank dice (3 pairs each of 2-colour and 1 roll of labelling stickers; 8-sided dice and numbered (set); 10-sided dice and numbered (set of 6) 2-colour counters.

Math Manipulatives, Package 3

Pre-Grade 1 to Grade 6

Copyright 1993
Supplier LRDC
Order No. 235673 **Est. Cost** $130.65
Includes: Geoboard - overhead 5x5 pin matrix (one overhead 5x5 geoboard with geobands and teacher's guide); geoboard - overhead 11x11 matrix set (set of 15 overhead geoboards with geobands); 3D geometric stamp (set of 16); attribute blocks (set of 60 plastic pieces).

Math Manipulatives, Package 4

Pre-Grade 1 to Grade 6

Copyright 1993
Supplier LRDC
Order No. 235665 **Est. Cost** $87.20
Includes: Student 24-hour clock; demonstration gear/logic clock; 24-Hour clock stamp; base 10 stamp (set of 4); demonstration thermometer (plastic waterproof thermometer showing Celsius degrees); trundle wheel with reversible clicker; metric measuring tape (set of ten 150 cm fiberglass tapes); Canadian coin stamps (set of 5).

Math Manipulatives, Package A

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161844 **Est. Cost** $221.90
Includes: Base 10 Blocks; geometric solids; abacus (4 place); cube-a-link; pattern blocks.

Math Manipulatives, Package B

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 162107 **Est. Cost** $211.70
Includes: Base 10 blocks; geometric solids; abacus (10 place); centicubes; Mira-math.

Math Manipulatives, Package C

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161852 **Est. Cost** $76.10
Includes: one balance scale; one mass set (9); one beaker set (10).

Metric Measuring Tapes

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234675 **Est. Cost** $9.65
Set of 10 150 cm fibreglass tapes.

Mira Math

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161935 **Est. Cost** $5.10
One Mira unit.

Overhead Fraction Bars

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234815 **Est. Cost** $9.80
Set of 25 coloured transparent pieces.

Overhead Spinners

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234724 **Est. Cost** $7.35
Set of 5 overhead spinners.

Pattern Blocks

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 161901 **Est. Cost** $17.55
Includes 250 wood pieces in 6 different shapes and colours.

Pattern Blocks for Overhead

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234716 **Est. Cost** $8.80
Set of 49 transparent pieces.

Standard Blank Dice

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234807 **Est. Cost** $5.25
Three pair each of 2-colour dice and 1 roll of labelling stickers.

Standard Dice with Numbers

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234790 **Est. Cost** $3.60
Three pair of 6-sided dice.

Student 24-Hour Clock

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234633 **Est. Cost** $12.15

Trundle Wheel with Reversible Clicker

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234188 **Est. Cost** $19.75

Two-Coloured Counters

Pre-Grade 1 to Grade 6

Supplier LRDC
Order No. 234774 **Est. Cost** $9.45
Set of 200.

WITHDRAWALS LISTING

Title	Format	Grade Level
TO BE WITHDRAWN AUGUST 31, 1995		
Adding Fractions *Success With Math Fractions*	Courseware	Grades 5, 6, 7, 8
Alien Addition *Academic Skill Builders*	Courseware	Grades 1, 2, 3, 4, 5, 6
Alligator Mix *Academic Skill Builders*	Courseware	Grades 1, 2, 3, 4, 5, 6
Bumble Games	Courseware	Grades 1, 2, 3, 4, 5
Bumble Plot	Courseware	Grades 3, 4, 5, 6
Carrying: Regrouping For Addition	Courseware	Grades 3, 4
Code Quest: Strategies in Problem Solving	Courseware	Grades 4, 5, 6, 7
Count and Add	Courseware	Grades 1, 2, 3, 4
Counters	Courseware	Grade 1
Demolition Division *Academic Skill Builders*	Courseware	Grades 1, 2, 3, 4, 5, 6
Dragon Mix *Academic Skill Builders*	Courseware	Grades 1, 2, 3, 4, 5, 6
Early Games for Young Children	Courseware	Grade 1
Elementary Math Drill	Courseware	Grades 3, 4, 5
Elementary Mathematics Classroom Learning System: Fractions/Decimals	Courseware	Grades 4, 5, 6
Elementary Mathematics Classroom Learning System: Whole Numbers	Courseware	Grades 1, 2, 3, 4, 5, 6
Estimation	Courseware	Grade 1
Explorer Metros	Courseware	Grades 4, 5, 6
Exploring Tables and Graphs 1	Courseware	Grades 3, 4
Exploring Tables and Graphs 2	Courseware	Grades 5, 6
Fast Facts	Courseware	Grades 1, 2, 3, 4, 5, 6
Fay: That Math Woman	Courseware	Grades 2, 3
Fraction Factory	Courseware	Grades 3, 4, 5, 6
Geometric Concepts: Area	Courseware	Grades 6, 7, 8, 9
Geometric Concepts: Perimeter	Courseware	Grades 5, 6, 7, 8, 9
Geometric Supposer, The: Triangles	Courseware	Grades 4, 5, 6, 7, 8, 9,
Gertrude's Puzzles	Courseware	Grades 1, 2, 3, 4, 5, 6

WITHDRAWALS LISTING

Title	Format	Grade Level
Holt Mathematics System Series: - Student Texts - Activity Masters - Teacher's Editions - Calculator Activity Masters	Print	Grades 1, 2, 3, 4, 5, 6
Houghton Mifflin Mathematics Series: - Problem Solving Booklets - Pupil's Workbooks - Testing and Practice Masters - Teacher's Resource Books - Pupil's Texts	Print	Grades 1, 2, 3, 4, 5, 6
Integers / Integer Fast Facts	Courseware	Grades 4, 5, 6
It Figures (Programs 1 - 28) *It Figures*	Videocassette	Grades 4, 5, 6
Learning About Numbers	Courseware	Grades 1, 2, 3, 4
Math Blaster	Courseware	Grades 1, 2, 3, 4, 5, 6
Math Sequences (Revised Edition)	Courseware	Grades 1, 2, 3, 4, 5, 6, 7,
Math Strategies: Problem Solving	Courseware	Grades 6, 7, 8, 9, 10, 11,
Math Voyager	Courseware	Grades 2, 3, 4, 5, 6
Mathematics Activities Courseware 1 (MAC 1)	Courseware	Grade 1
Mathematics Activities Courseware 2 (MAC 2)	Courseware	Grade 2
Mathematics Activities Courseware 3 (MAC 3)	Courseware	Grade 3
Mathematics Activities Courseware 4 (MAC 4)	Courseware	Grade 4
Mathematics Activities Courseware 5 (MAC 5)	Courseware	Grade 5
Mathematics Activities Courseware 6 (MAC 6)	Courseware	Grade 6
Mathematics: Level A (Revised Edition)	Courseware	Grades 1, 2, 3, 4, 5, 6
Mathematics: Level B (Revised Edition)	Courseware	Grades 1, 2, 3, 4, 5, 6
Mathematics: Level C (Revised Edition)	Courseware	Grades 1, 2, 3, 4, 5, 6
Mathways Series: - Student Texts - Teacher's Resource Manuals - Teacher's Supplementary Packages	Print	Grades 1, 2, 3, 4, 5, 6
Measurements: Length, Mass And Volume	Courseware	Grades 4, 5, 6, 7, 8
Meteor Multiplication *Academic Skill Builders*	Courseware	Grades 1, 2, 3, 4, 5, 6
Minus Mission *Academic Skill Builders*	Courseware	Grades 1, 2, 3, 4, 5, 6
Multiplying Fractions *Success With Math Fractions*	Courseware	Grades 5, 6, 7, 8
Number Farm	Courseware	Grade 1

WITHDRAWALS LISTING

Title	Format	Grade Level
Percents	Courseware	Grades 6, 7, 8, 9
Piece of Cake	Courseware	Grades 1, 2, 3, 4, 5, 6
Problem Solving In The 80's: A Mathematics Workbook: Level 4	Print	Grade 4
Problem Solving In The 80's: A Mathematics Workbook: Level 4: Teacher's Edition	Print	Grade 4
Problem Solving In The 80's: A Mathematics Workbook: Level 5	Print	Grade 5
Problem Solving In The 80's: A Mathematics Workbook: Level 5: Teacher's Edition	Print	Grade 5
Problem Solving In The 80's: A Mathematics Workbook: Level 6	Print	Grade 6
Problem Solving In The 80's: A Mathematics Workbook: Level 6: Teacher's Edition	Print	Grade 6
Problem Solving with LOGO: Turtles in the Classroom (1st Ed.)	Print	Grades 4, 5, 6
Quations	Courseware	Grades 4, 5, 6
Ratios and Proportions	Courseware	Grades 6, 7, 8, 9
Starting Points in Mathematics Series: - Student Texts - Teacher's Editions - Enrichment Masters - Achievement Tests - Workbooks - Calculator Workbooks	Print	Grades 1, 2, 3, 4, 5, 6
Stickybear Math 1	Courseware	Grades 1, 2, 3, 4
Stickybear Numbers	Courseware	Grade 1
Stickybear Opposites	Courseware	Grade 1
Stickybear Shapes	Courseware	Grade 1
Techniques of Problem Solving (Complete Kit)	Kit	Grades 1, 2
Techniques of Problem Solving: Deck A (Canadian Ed.)	Kit	Grades 2, 3
Techniques of Problem Solving: Deck B (Canadian Ed.)	Kit	Grade 4
Techniques of Problem Solving: Deck C (Canadian Ed.)	Kit	Grade 5
Techniques of Problem Solving: Deck D (Canadian Ed.)	Kit	Grade 6

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182 Sioux Road
SHERWOOD PARK AB T8A 3X5
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FAX (403) 467-5469

ZONE 4
Information and Development Services
Parkland Regional Library
Box 1000
5404 - 56 Avenue
LACOMBE AB T0C 1S0
Phone (403) 782-3850
FAX (403) 782-4650

ZONE 5
South Central Alberta Resource Centre (SCARC)
Golden Hills Regional Division
435A Highway #1
STRATHMORE AB T1P 1J4
Phone (403) 934-5028
FAX (403) 934-4889

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Provincial Government Administration Building, Room 120
909 Third Avenue North
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CALGARY AB T3E 6T1
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Centre for Education
One Kingsway Avenue
EDMONTON AB T5H 4G9
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Medicine Hat School District
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